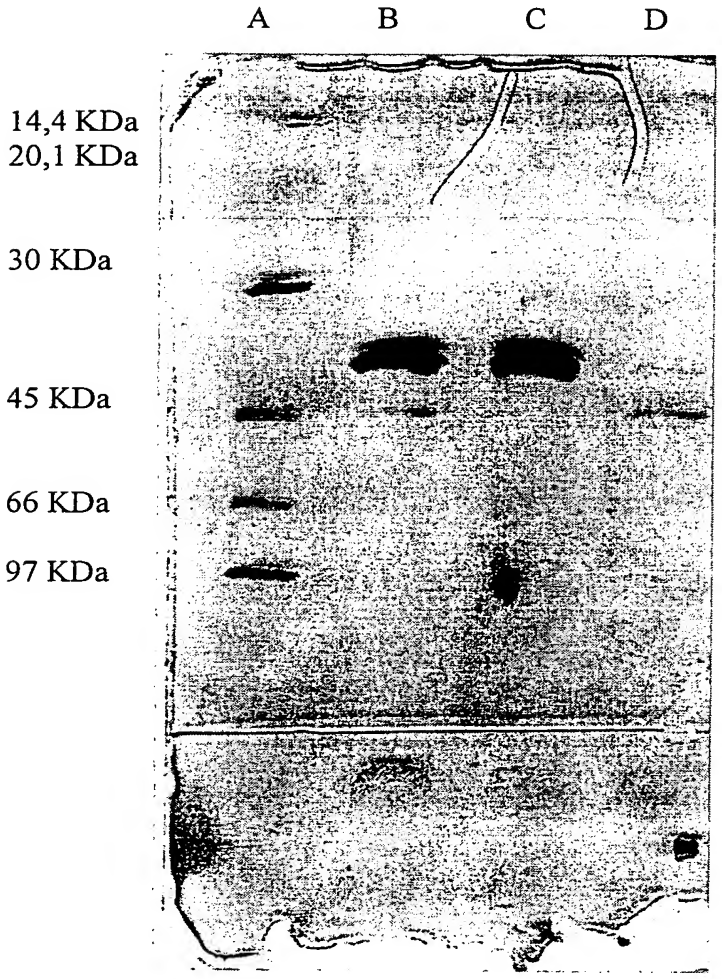

FIGURE 1

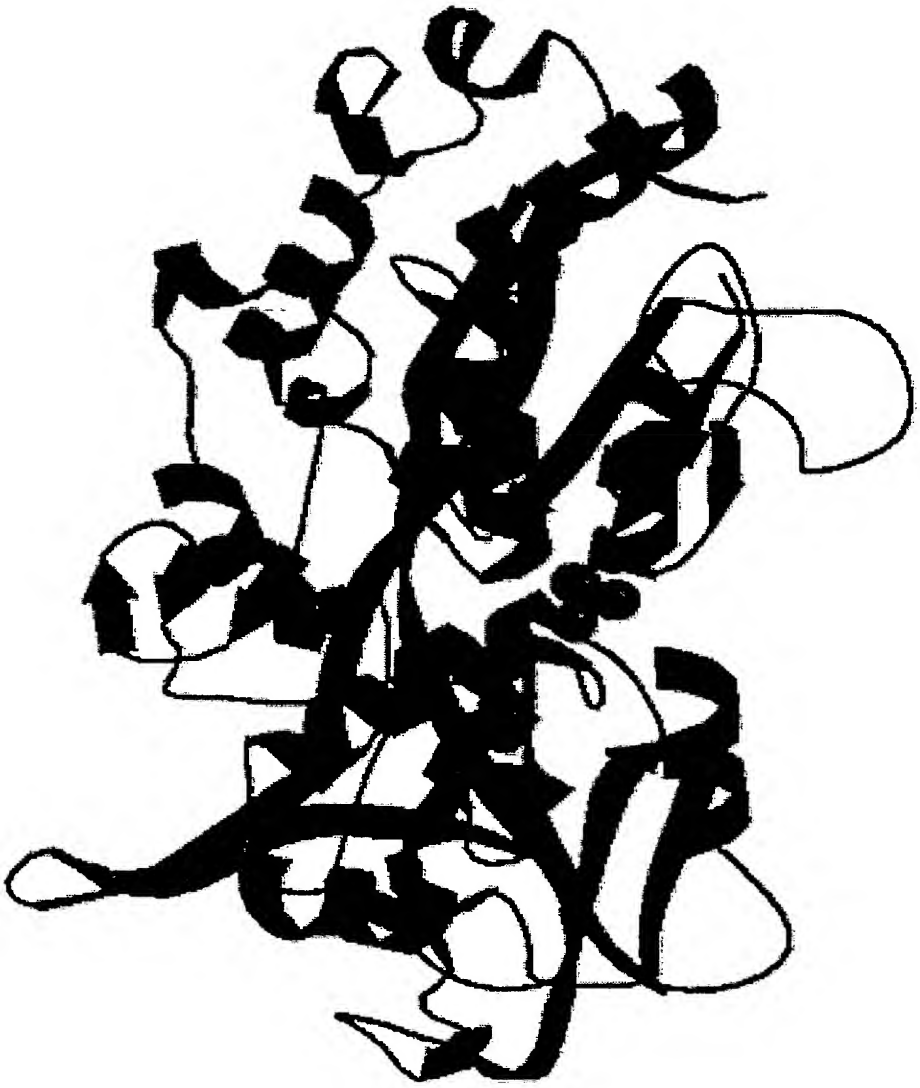

FIGURE 2

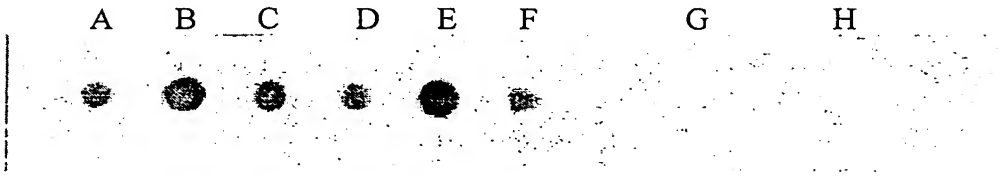

FIGURE 3

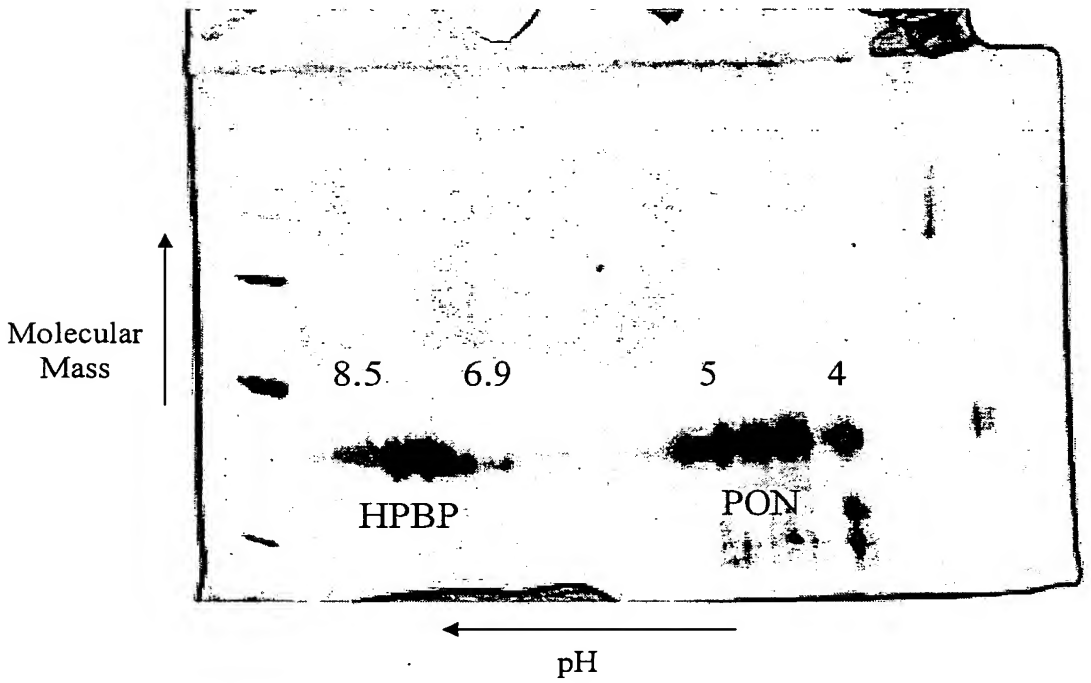

FIGURE 4

ATOM	1	CB	SER	A	1	24.666	45.653	14.370	1.00	26.15	A
ATOM	2	OG	SER	A	1	25.258	46.028	13.130	1.00	38.82	A
ATOM	3	C	SER	A	1	22.519	45.324	15.622	1.00	20.30	A
ATOM	4	O	SER	A	1	21.889	46.093	16.367	1.00	18.83	A
ATOM	5	N	SER	A	1	22.817	47.273	14.074	1.00	22.37	A
ATOM	6	CA	SER	A	1	23.146	45.831	14.317	1.00	22.87	A
ATOM	7	N	ILE	A	2	22.676	44.027	15.878	1.00	14.00	A
ATOM	8	CA	ILE	A	2	22.149	43.401	17.092	1.00	13.36	A
ATOM	9	CB	ILE	A	2	21.747	41.923	16.828	1.00	14.04	A
ATOM	10	CG2	ILE	A	2	21.536	41.191	18.155	1.00	9.05	A
ATOM	11	CG1	ILE	A	2	20.458	41.872	15.988	1.00	13.38	A
ATOM	12	CD1	ILE	A	2	20.173	40.501	15.357	1.00	14.27	A
ATOM	13	C	ILE	A	2	23.303	43.459	18.083	1.00	12.32	A
ATOM	14	O	ILE	A	2	24.376	42.890	17.847	1.00	14.26	A
ATOM	15	N	ASP	A	3	23.075	44.122	19.205	1.00	13.19	A
ATOM	16	CA	ASP	A	3	24.134	44.331	20.193	1.00	11.15	A
ATOM	17	CB	ASP	A	3	24.149	45.830	20.578	1.00	12.52	A
ATOM	18	CG	ASP	A	3	24.268	46.744	19.351	1.00	11.70	A
ATOM	19	OD1	ASP	A	3	25.289	46.618	18.642	1.00	11.97	A
ATOM	20	OD2	ASP	A	3	23.356	47.569	19.094	1.00	13.82	A
ATOM	21	C	ASP	A	3	23.981	43.508	21.456	1.00	11.88	A
ATOM	22	O	ASP	A	3	22.947	43.577	22.116	1.00	11.48	A
ATOM	23	N	GLY	A	4	25.022	42.763	21.800	1.00	9.46	A
ATOM	24	CA	GLY	A	4	24.973	41.947	23.007	1.00	10.97	A
ATOM	25	C	GLY	A	4	26.303	41.966	23.740	1.00	8.48	A
ATOM	26	O	GLY	A	4	27.314	42.413	23.200	1.00	9.87	A
ATOM	27	N	GLY	A	5	26.296	41.496	24.987	1.00	11.77	A
ATOM	28	CA	GLY	A	5	27.511	41.489	25.785	1.00	4.85	A
ATOM	29	C	GLY	A	5	27.163	41.000	27.186	1.00	8.06	A
ATOM	30	O	GLY	A	5	26.009	40.610	27.447	1.00	9.13	A
ATOM	31	N	GLY	A	6	28.144	41.021	28.089	1.00	9.80	A
ATOM	32	CA	GLY	A	6	27.898	40.589	29.458	1.00	9.86	A
ATOM	33	C	GLY	A	6	28.970	39.679	30.014	1.00	7.11	A
ATOM	34	O	GLY	A	6	30.150	40.030	30.000	1.00	8.89	A
ATOM	35	N	ALA	A	7	28.567	38.518	30.525	1.00	9.08	A
ATOM	36	CA	ALA	A	7	29.509	37.540	31.079	1.00	8.69	A
ATOM	37	CB	ALA	A	7	28.814	36.168	31.195	1.00	7.94	A
ATOM	38	C	ALA	A	7	30.811	37.363	30.277	1.00	9.69	A
ATOM	39	O	ALA	A	7	30.781	37.212	29.050	1.00	7.30	A
ATOM	40	N	THR	A	8	31.941	37.367	30.981	1.00	7.56	A
ATOM	41	CA	THR	A	8	33.236	37.135	30.338	1.00	7.21	A
ATOM	42	CB	THR	A	8	34.402	37.865	31.065	1.00	8.00	A
ATOM	43	OG1	THR	A	8	34.532	37.344	32.402	1.00	9.83	A
ATOM	44	CG2	THR	A	8	34.123	39.388	31.139	1.00	10.68	A
ATOM	45	C	THR	A	8	33.542	35.624	30.340	1.00	5.67	A
ATOM	46	O	THR	A	8	34.355	35.168	29.552	1.00	8.00	A
ATOM	47	N	LEU	A	9	32.885	34.842	31.195	1.00	6.65	A
ATOM	48	CA	LEU	A	9	33.190	33.389	31.224	1.00	9.98	A
ATOM	49	CB	LEU	A	9	32.275	32.649	32.238	1.00	10.55	A
ATOM	50	CG	LEU	A	9	32.400	31.109	32.271	1.00	11.53	A
ATOM	51	CD1	LEU	A	9	32.200	30.566	33.699	1.00	10.77	A
ATOM	52	CD2	LEU	A	9	31.356	30.503	31.300	1.00	6.94	A
ATOM	53	C	LEU	A	9	33.103	32.755	29.817	1.00	10.91	A
ATOM	54	O	LEU	A	9	33.985	31.970	29.421	1.00	9.67	A
ATOM	55	N	PRO	A	10	32.051	33.088	29.040	1.00	6.59	A
ATOM	56	CD	PRO	A	10	30.763	33.664	29.485	1.00	8.09	A
ATOM	57	CA	PRO	A	10	31.915	32.521	27.686	1.00	7.68	A
ATOM	58	CB	PRO	A	10	30.428	32.218	27.611	1.00	11.73	A
ATOM	59	CG	PRO	A	10	29.845	33.467	28.251	1.00	8.40	A
ATOM	60	C	PRO	A	10	32.317	33.504	26.579	1.00	8.72	A
ATOM	61	O	PRO	A	10	32.040	33.263	25.396	1.00	9.01	A
ATOM	62	N	GLU	A	11	33.003	34.589	26.928	1.00	5.35	A
ATOM	63	CA	GLU	A	11	33.325	35.565	25.896	1.00	8.04	A
ATOM	64	CB	GLU	A	11	33.978	36.829	26.493	1.00	12.60	A
ATOM	65	CG	GLU	A	11	35.380	36.672	27.001	1.00	21.32	A
ATOM	66	CD	GLU	A	11	35.994	38.013	27.391	1.00	26.61	A
ATOM	67	OE1	GLU	A	11	35.264	38.873	27.920	1.00	30.93	A
ATOM	68	OE2	GLU	A	11	37.203	38.202	27.176	1.00	31.32	A
ATOM	69	C	GLU	A	11	34.143	35.066	24.709	1.00	10.00	A
ATOM	70	O	GLU	A	11	33.866	35.464	23.563	1.00	8.68	A
ATOM	71	N	LYS	A	12	35.134	34.215	24.957	1.00	8.65	A
ATOM	72	CA	LYS	A	12	35.935	33.678	23.850	1.00	10.43	A
ATOM	73	CB	LYS	A	12	37.081	32.840	24.374	1.00	11.05	A
ATOM	74	CG	LYS	A	12	38.151	33.646	25.090	1.00	9.26	A
ATOM	75	CD	LYS	A	12	39.117	32.622	25.673	1.00	17.64	A

FIGURE 5

ATOM	76	CE	LYS	A	12	40.293	33.277	26.307	1.00	24.93	A
ATOM	77	NZ	LYS	A	12	41.298	32.237	26.600	1.00	25.96	A
ATOM	78	C	LYS	A	12	35.079	32.830	22.934	1.00	11.17	A
ATOM	79	O	LYS	A	12	35.339	32.726	21.736	1.00	8.79	A
ATOM	80	N	LEU	A	13	34.071	32.176	23.498	1.00	7.67	A
ATOM	81	CA	LEU	A	13	33.189	31.383	22.669	1.00	10.04	A
ATOM	82	CB	LEU	A	13	32.230	30.549	23.534	1.00	8.86	A
ATOM	83	CG	LEU	A	13	31.082	29.888	22.769	1.00	8.97	A
ATOM	84	CD1	LEU	A	13	31.649	28.807	21.805	1.00	12.12	A
ATOM	85	CD2	LEU	A	13	30.101	29.268	23.753	1.00	12.69	A
ATOM	86	C	LEU	A	13	32.371	32.292	21.750	1.00	9.01	A
ATOM	87	O	LEU	A	13	32.293	32.064	20.536	1.00	10.60	A
ATOM	88	N	TYR	A	14	31.761	33.329	22.305	1.00	10.47	A
ATOM	89	CA	TYR	A	14	30.920	34.195	21.482	1.00	9.03	A
ATOM	90	CB	TYR	A	14	30.029	35.087	22.352	1.00	8.38	A
ATOM	91	CG	TYR	A	14	29.091	34.293	23.253	1.00	11.48	A
ATOM	92	CD1	TYR	A	14	28.499	33.109	22.806	1.00	12.01	A
ATOM	93	CE1	TYR	A	14	27.671	32.341	23.642	1.00	10.45	A
ATOM	94	CD2	TYR	A	14	28.824	34.706	24.564	1.00	10.30	A
ATOM	95	CE2	TYR	A	14	27.998	33.948	25.403	1.00	10.35	A
ATOM	96	CZ	TYR	A	14	27.430	32.766	24.933	1.00	8.21	A
ATOM	97	OH	TYR	A	14	26.628	32.014	25.757	1.00	8.65	A
ATOM	98	C	TYR	A	14	31.715	35.036	20.489	1.00	9.67	A
ATOM	99	O	TYR	A	14	31.142	35.538	19.515	1.00	8.36	A
ATOM	100	N	LEU	A	15	33.021	35.184	20.738	1.00	8.53	A
ATOM	101	CA	LEU	A	15	33.904	35.936	19.838	1.00	9.45	A
ATOM	102	CB	LEU	A	15	35.087	36.564	20.601	1.00	8.09	A
ATOM	103	CG	LEU	A	15	34.742	37.802	21.433	1.00	14.85	A
ATOM	104	CD1	LEU	A	15	35.932	38.141	22.306	1.00	16.07	A
ATOM	105	CD2	LEU	A	15	34.364	38.990	20.510	1.00	12.61	A
ATOM	106	C	LEU	A	15	34.467	35.018	18.756	1.00	16.00	A
ATOM	107	O	LEU	A	15	35.174	35.466	17.859	1.00	16.13	A
ATOM	108	N	THR	A	16	34.178	33.729	18.848	1.00	11.70	A
ATOM	109	CA	THR	A	16	34.681	32.791	17.853	1.00	11.09	A
ATOM	110	CB	THR	A	16	34.523	31.334	18.371	1.00	11.33	A
ATOM	111	OG1	THR	A	16	35.406	31.142	19.484	1.00	13.08	A
ATOM	112	CG2	THR	A	16	34.848	30.314	17.291	1.00	11.23	A
ATOM	113	C	THR	A	16	33.906	32.997	16.549	1.00	12.10	A
ATOM	114	O	THR	A	16	32.671	32.996	16.540	1.00	12.20	A
ATOM	115	N	PRO	A	17	34.620	33.158	15.420	1.00	14.18	A
ATOM	116	CD	PRO	A	17	36.085	33.162	15.251	1.00	14.83	A
ATOM	117	CA	PRO	A	17	33.933	33.367	14.137	1.00	17.90	A
ATOM	118	CB	PRO	A	17	35.068	33.292	13.113	1.00	20.97	A
ATOM	119	CG	PRO	A	17	36.251	33.842	13.890	1.00	21.64	A
ATOM	120	C	PRO	A	17	32.830	32.341	13.854	1.00	14.42	A
ATOM	121	O	PRO	A	17	33.027	31.143	14.066	1.00	14.18	A
ATOM	122	N	ASP	A	18	31.673	32.836	13.414	1.00	15.17	A
ATOM	123	CA	ASP	A	18	30.515	32.020	13.058	1.00	19.19	A
ATOM	124	CB	ASP	A	18	30.932	30.829	12.169	1.00	23.04	A
ATOM	125	CG	ASP	A	18	31.649	31.260	10.885	1.00	30.30	A
ATOM	126	OD1	ASP	A	18	31.214	32.238	10.239	1.00	30.86	A
ATOM	127	OD2	ASP	A	18	32.645	30.599	10.511	1.00	39.65	A
ATOM	128	C	ASP	A	18	29.657	31.479	14.212	1.00	13.08	A
ATOM	129	O	ASP	A	18	28.651	30.833	13.958	1.00	13.28	A
ATOM	130	N	VAL	A	19	30.041	31.709	15.466	1.00	13.07	A
ATOM	131	CA	VAL	A	19	29.199	31.221	16.570	1.00	8.94	A
ATOM	132	CB	VAL	A	19	29.976	31.225	17.911	1.00	9.65	A
ATOM	133	CG1	VAL	A	19	29.014	31.123	19.098	1.00	11.73	A
ATOM	134	CG2	VAL	A	19	30.930	30.026	17.923	1.00	11.99	A
ATOM	135	C	VAL	A	19	27.971	32.126	16.613	1.00	11.81	A
ATOM	136	O	VAL	A	19	26.829	31.655	16.707	1.00	11.21	A
ATOM	137	N	LEU	A	20	28.198	33.434	16.567	1.00	10.93	A
ATOM	138	CA	LEU	A	20	27.077	34.363	16.486	1.00	8.58	A
ATOM	139	CB	LEU	A	20	27.439	35.730	17.084	1.00	13.44	A
ATOM	140	CG	LEU	A	20	27.677	35.767	18.601	1.00	14.24	A
ATOM	141	CD1	LEU	A	20	27.863	37.222	19.084	1.00	13.26	A
ATOM	142	CD2	LEU	A	20	26.480	35.130	19.315	1.00	11.94	A
ATOM	143	C	LEU	A	20	26.857	34.470	14.969	1.00	15.21	A
ATOM	144	O	LEU	A	20	27.836	34.550	14.196	1.00	11.72	A
ATOM	145	N	THR	A	21	25.596	34.455	14.540	1.00	14.05	A
ATOM	146	CA	THR	A	21	25.268	34.511	13.114	1.00	12.27	A
ATOM	147	CB	THR	A	21	24.006	33.653	12.865	1.00	16.46	A
ATOM	148	OG1	THR	A	21	22.966	34.044	13.774	1.00	13.53	A
ATOM	149	CG2	THR	A	21	24.326	32.173	13.121	1.00	17.80	A
ATOM	150	C	THR	A	21	25.121	35.937	12.509	1.00	14.67	A
ATOM	151	O	THR	A	21	25.452	36.928	13.148	1.00	12.04	A

FIGURE 5 (continued)

ATOM	152	N	ALA	A	22	24.663	36.037	11.265	1.00	12.98	A
ATOM	153	CA	ALA	A	22	24.523	37.335	10.594	1.00	12.25	A
ATOM	154	CB	ALA	A	22	23.913	37.146	9.208	1.00	15.06	A
ATOM	155	C	ALA	A	22	23.749	38.418	11.337	1.00	10.99	A
ATOM	156	O	ALA	A	22	22.688	38.174	11.916	1.00	15.12	A
ATOM	157	N	GLY	A	23	24.285	39.636	11.292	1.00	13.67	A
ATOM	158	CA	GLY	A	23	23.631	40.753	11.951	1.00	14.86	A
ATOM	159	C	GLY	A	23	24.068	41.057	13.371	1.00	14.29	A
ATOM	160	O	GLY	A	23	23.775	42.138	13.894	1.00	15.41	A
ATOM	161	N	PHE	A	24	24.760	40.116	14.001	1.00	12.44	A
ATOM	162	CA	PHE	A	24	25.238	40.283	15.363	1.00	14.48	A
ATOM	163	CB	PHE	A	24	25.424	38.899	16.020	1.00	9.89	A
ATOM	164	CG	PHE	A	24	24.156	38.276	16.527	1.00	12.35	A
ATOM	165	CD1	PHE	A	24	23.225	37.734	15.644	1.00	6.46	A
ATOM	166	CD2	PHE	A	24	23.888	38.237	17.898	1.00	12.73	A
ATOM	167	CE1	PHE	A	24	22.035	37.153	16.125	1.00	11.12	A
ATOM	168	CE2	PHE	A	24	22.695	37.662	18.397	1.00	7.42	A
ATOM	169	CZ	PHE	A	24	21.772	37.118	17.502	1.00	11.79	A
ATOM	170	C	PHE	A	24	26.584	41.030	15.444	1.00	14.36	A
ATOM	171	O	PHE	A	24	27.569	40.592	14.850	1.00	12.41	A
ATOM	172	N	ALA	A	25	26.630	42.141	16.183	1.00	14.60	A
ATOM	173	CA	ALA	A	25	27.881	42.875	16.378	1.00	13.54	A
ATOM	174	CB	ALA	A	25	27.606	44.233	17.024	1.00	15.19	A
ATOM	175	C	ALA	A	25	28.752	42.031	17.315	1.00	12.48	A
ATOM	176	O	ALA	A	25	28.240	41.155	18.023	1.00	12.61	A
ATOM	177	N	PRO	A	26	30.067	42.289	17.348	1.00	11.27	A
ATOM	178	CD	PRO	A	26	30.837	43.202	16.476	1.00	13.96	A
ATOM	179	CA	PRO	A	26	30.952	41.507	18.231	1.00	12.70	A
ATOM	180	CB	PRO	A	26	32.334	42.117	17.989	1.00	14.99	A
ATOM	181	CG	PRO	A	26	32.241	42.582	16.519	1.00	19.22	A
ATOM	182	C	PRO	A	26	30.536	41.602	19.699	1.00	10.57	A
ATOM	183	O	PRO	A	26	30.222	42.681	20.192	1.00	10.54	A
ATOM	184	N	TYR	A	27	30.529	40.456	20.367	1.00	8.04	A
ATOM	185	CA	TYR	A	27	30.161	40.345	21.793	1.00	9.13	A
ATOM	186	CB	TYR	A	27	30.294	38.886	22.231	1.00	8.74	A
ATOM	187	CG	TYR	A	27	29.824	38.612	23.648	1.00	5.12	A
ATOM	188	CD1	TYR	A	27	28.469	38.512	23.938	1.00	6.81	A
ATOM	189	CE1	TYR	A	27	28.024	38.224	25.247	1.00	9.00	A
ATOM	190	CD2	TYR	A	27	30.741	38.423	24.682	1.00	5.70	A
ATOM	191	CE2	TYR	A	27	30.310	38.131	25.992	1.00	7.78	A
ATOM	192	CZ	TYR	A	27	28.948	38.032	26.259	1.00	9.36	A
ATOM	193	OH	TYR	A	27	28.502	37.709	27.532	1.00	8.37	A
ATOM	194	C	TYR	A	27	31.081	41.207	22.675	1.00	10.49	A
ATOM	195	O	TYR	A	27	32.297	41.207	22.494	1.00	9.91	A
ATOM	196	N	ILE	A	28	30.510	41.931	23.635	1.00	8.97	A
ATOM	197	CA	ILE	A	28	31.324	42.765	24.517	1.00	12.31	A
ATOM	198	CB	ILE	A	28	30.801	44.225	24.521	1.00	13.61	A
ATOM	199	CG2	ILE	A	28	31.657	45.098	25.459	1.00	13.95	A
ATOM	200	CG1	ILE	A	28	30.871	44.793	23.095	1.00	11.91	A
ATOM	201	CD1	ILE	A	28	30.192	46.146	22.915	1.00	12.92	A
ATOM	202	C	ILE	A	28	31.333	42.191	25.942	1.00	13.14	A
ATOM	203	O	ILE	A	28	30.315	42.189	26.622	1.00	8.79	A
ATOM	204	N	GLY	A	29	32.499	41.706	26.373	1.00	13.23	A
ATOM	205	CA	GLY	A	29	32.630	41.105	27.695	1.00	15.83	A
ATOM	206	C	GLY	A	29	32.868	42.127	28.791	1.00	16.10	A
ATOM	207	O	GLY	A	29	33.915	42.794	28.826	1.00	12.27	A
ATOM	208	N	THR	A	30	31.900	42.234	29.697	1.00	8.70	A
ATOM	209	CA	THR	A	30	31.966	43.200	30.783	1.00	10.71	A
ATOM	210	CB	THR	A	30	31.061	44.442	30.473	1.00	11.83	A
ATOM	211	OG1	THR	A	30	29.703	44.014	30.222	1.00	16.91	A
ATOM	212	CG2	THR	A	30	31.607	45.235	29.249	1.00	8.83	A
ATOM	213	C	THR	A	30	31.538	42.640	32.147	1.00	11.78	A
ATOM	214	O	THR	A	30	31.532	43.378	33.135	1.00	11.34	A
ATOM	215	N	GLY	A	31	31.187	41.352	32.210	1.00	10.41	A
ATOM	216	CA	GLY	A	31	30.729	40.789	33.473	1.00	8.40	A
ATOM	217	C	GLY	A	31	29.208	40.604	33.467	1.00	9.64	A
ATOM	218	O	GLY	A	31	28.478	41.396	32.862	1.00	8.01	A
ATOM	219	N	SER	A	32	28.718	39.566	34.138	1.00	7.93	A
ATOM	220	CA	SER	A	32	27.274	39.297	34.143	1.00	4.39	A
ATOM	221	CB	SER	A	32	26.961	37.954	34.832	1.00	2.86	A
ATOM	222	OG	SER	A	32	27.538	36.876	34.125	1.00	6.73	A
ATOM	223	C	SER	A	32	26.440	40.386	34.793	1.00	7.61	A
ATOM	224	O	SER	A	32	25.321	40.626	34.354	1.00	9.70	A
ATOM	225	N	GLY	A	33	26.984	41.052	35.811	1.00	8.20	A
ATOM	226	CA	GLY	A	33	26.256	42.121	36.506	1.00	6.91	A

FIGURE 5 (continued)

ATOM	227	C	GLY	A	33	25.942	43.235	35.524	1.00	9.16	A
ATOM	228	O	GLY	A	33	24.799	43.708	35.429	1.00	9.95	A
ATOM	229	N	LYS	A	34	26.943	43.633	34.749	1.00	10.60	A
ATOM	230	CA	LYS	A	34	26.710	44.681	33.758	1.00	8.52	A
ATOM	231	CB	LYS	A	34	28.040	45.240	33.250	1.00	7.07	A
ATOM	232	CG	LYS	A	34	28.667	46.220	34.250	1.00	12.80	A
ATOM	233	CD	LYS	A	34	29.957	46.854	33.703	1.00	10.66	A
ATOM	234	CE	LYS	A	34	30.597	47.768	34.748	1.00	10.90	A
ATOM	235	NZ	LYS	A	34	29.700	48.890	35.066	1.00	23.47	A
ATOM	236	C	LYS	A	34	25.848	44.201	32.601	1.00	12.94	A
ATOM	237	O	LYS	A	34	25.070	44.977	32.043	1.00	9.59	A
ATOM	238	N	GLY	A	35	25.983	42.928	32.236	1.00	9.69	A
ATOM	239	CA	GLY	A	35	25.158	42.386	31.162	1.00	7.50	A
ATOM	240	C	GLY	A	35	23.677	42.414	31.542	1.00	9.68	A
ATOM	241	O	GLY	A	35	22.831	42.767	30.717	1.00	9.00	A
ATOM	242	N	LYS	A	36	23.340	42.077	32.787	1.00	8.56	A
ATOM	243	CA	LYS	A	36	21.929	42.089	33.173	1.00	7.26	A
ATOM	244	CB	LYS	A	36	21.709	41.393	34.533	1.00	9.15	A
ATOM	245	CG	LYS	A	36	21.954	39.861	34.445	1.00	5.28	A
ATOM	246	CD	LYS	A	36	21.394	39.069	35.662	1.00	6.85	A
ATOM	247	CE	LYS	A	36	21.990	39.576	36.986	1.00	11.53	A
ATOM	248	NZ	LYS	A	36	21.397	38.945	38.221	1.00	11.99	A
ATOM	249	C	LYS	A	36	21.409	43.527	33.204	1.00	11.18	A
ATOM	250	O	LYS	A	36	20.311	43.787	32.724	1.00	14.03	A
ATOM	251	N	ILE	A	37	22.190	44.459	33.749	1.00	9.12	A
ATOM	252	CA	ILE	A	37	21.752	45.854	33.766	1.00	11.15	A
ATOM	253	CB	ILE	A	37	22.778	46.779	34.462	1.00	10.46	A
ATOM	254	CG2	ILE	A	37	22.424	48.252	34.197	1.00	11.32	A
ATOM	255	CG1	ILE	A	37	22.774	46.522	35.972	1.00	9.50	A
ATOM	256	CD1	ILE	A	37	24.024	47.029	36.669	1.00	15.62	A
ATOM	257	C	ILE	A	37	21.563	46.368	32.325	1.00	11.78	A
ATOM	258	O	ILE	A	37	20.570	47.017	32.018	1.00	11.36	A
ATOM	259	N	ALA	A	38	22.518	46.071	31.452	1.00	9.31	A
ATOM	260	CA	ALA	A	38	22.438	46.539	30.063	1.00	10.19	A
ATOM	261	CB	ALA	A	38	23.650	46.016	29.269	1.00	10.93	A
ATOM	262	C	ALA	A	38	21.129	46.102	29.375	1.00	9.69	A
ATOM	263	O	ALA	A	38	20.447	46.899	28.712	1.00	8.41	A
ATOM	264	N	PHE	A	39	20.771	44.831	29.541	1.00	8.70	A
ATOM	265	CA	PHE	A	39	19.566	44.327	28.914	1.00	9.40	A
ATOM	266	CB	PHE	A	39	19.549	42.787	28.888	1.00	9.06	A
ATOM	267	CG	PHE	A	39	18.287	42.214	28.270	1.00	7.16	A
ATOM	268	CD1	PHE	A	39	18.223	41.953	26.896	1.00	8.56	A
ATOM	269	CD2	PHE	A	39	17.146	42.000	29.051	1.00	8.19	A
ATOM	270	CE1	PHE	A	39	17.035	41.481	26.306	1.00	9.12	A
ATOM	271	CE2	PHE	A	39	15.947	41.530	28.479	1.00	9.01	A
ATOM	272	CZ	PHE	A	39	15.888	41.269	27.101	1.00	8.28	A
ATOM	273	C	PHE	A	39	18.304	44.790	29.608	1.00	12.15	A
ATOM	274	O	PHE	A	39	17.398	45.313	28.972	1.00	10.76	A
ATOM	275	N	LEU	A	40	18.246	44.602	30.920	1.00	8.71	A
ATOM	276	CA	LEU	A	40	17.034	44.938	31.678	1.00	8.94	A
ATOM	277	CB	LEU	A	40	17.204	44.513	33.144	1.00	7.80	A
ATOM	278	CG	LEU	A	40	17.342	43.005	33.400	1.00	10.06	A
ATOM	279	CD1	LEU	A	40	17.809	42.781	34.887	1.00	6.45	A
ATOM	280	CD2	LEU	A	40	16.006	42.296	33.132	1.00	12.55	A
ATOM	281	C	LEU	A	40	16.626	46.403	31.632	1.00	10.63	A
ATOM	282	O	LEU	A	40	15.430	46.730	31.629	1.00	11.89	A
ATOM	283	N	GLU	A	41	17.604	47.291	31.586	1.00	10.88	A
ATOM	284	CA	GLU	A	41	17.294	48.717	31.551	1.00	9.10	A
ATOM	285	CB	GLU	A	41	18.053	49.436	32.669	1.00	13.20	A
ATOM	286	CG	GLU	A	41	17.802	48.829	34.036	1.00	11.00	A
ATOM	287	CD	GLU	A	41	18.671	49.429	35.131	1.00	22.54	A
ATOM	288	OE1	GLU	A	41	18.975	48.713	36.103	1.00	27.36	A
ATOM	289	OE2	GLU	A	41	19.037	50.616	35.043	1.00	22.49	A
ATOM	290	C	GLU	A	41	17.633	49.361	30.218	1.00	12.72	A
ATOM	291	O	GLU	A	41	17.505	50.576	30.066	1.00	13.60	A
ATOM	292	N	ASN	A	42	18.010	48.537	29.238	1.00	11.74	A
ATOM	293	CA	ASN	A	42	18.463	49.008	27.923	1.00	11.79	A
ATOM	294	CB	ASN	A	42	17.322	49.494	27.022	1.00	14.08	A
ATOM	295	CG	ASN	A	42	17.824	49.897	25.642	1.00	16.54	A
ATOM	296	OD1	ASN	A	42	18.885	49.428	25.189	1.00	15.67	A
ATOM	297	ND2	ASN	A	42	17.076	50.763	24.960	1.00	14.22	A
ATOM	298	C	ASN	A	42	19.486	50.126	28.091	1.00	16.68	A
ATOM	299	O	ASN	A	42	19.300	51.260	27.631	1.00	14.27	A
ATOM	300	N	SER	A	43	20.578	49.789	28.767	1.00	14.51	A

FIGURE 5 (continued)

ATOM	301	CA	SER	A	43	21.665	50.740	29.001	1.00	14.54	A
ATOM	302	CB	SER	A	43	21.920	50.874	30.520	1.00	19.90	A
ATOM	303	OG	SER	A	43	20.922	51.662	31.162	1.00	26.26	A
ATOM	304	C	SER	A	43	22.965	50.327	28.302	1.00	13.78	A
ATOM	305	O	SER	A	43	23.790	49.633	28.891	1.00	10.60	A
ATOM	306	N	TYR	A	44	23.168	50.755	27.056	1.00	9.73	A
ATOM	307	CA	TYR	A	44	24.396	50.401	26.361	1.00	10.86	A
ATOM	308	CB	TYR	A	44	24.330	50.880	24.904	1.00	10.54	A
ATOM	309	CG	TYR	A	44	25.414	50.311	24.034	1.00	12.22	A
ATOM	310	CD1	TYR	A	44	26.631	50.983	23.857	1.00	12.57	A
ATOM	311	CE1	TYR	A	44	27.625	50.469	23.011	1.00	10.91	A
ATOM	312	CD2	TYR	A	44	25.217	49.106	23.357	1.00	10.34	A
ATOM	313	CE2	TYR	A	44	26.201	48.587	22.517	1.00	11.21	A
ATOM	314	CZ	TYR	A	44	27.394	49.267	22.347	1.00	14.12	A
ATOM	315	OH	TYR	A	44	28.357	48.725	21.524	1.00	11.54	A
ATOM	316	C	TYR	A	44	25.650	50.971	27.026	1.00	8.02	A
ATOM	317	O	TYR	A	44	26.775	50.515	26.756	1.00	10.36	A
ATOM	318	N	ASN	A	45	25.484	51.941	27.917	1.00	8.55	A
ATOM	319	CA	ASN	A	45	26.657	52.547	28.535	1.00	14.36	A
ATOM	320	CB	ASN	A	45	26.271	53.811	29.337	1.00	8.69	A
ATOM	321	CG	ASN	A	45	25.707	53.503	30.708	1.00	11.69	A
ATOM	322	OD1	ASN	A	45	25.048	52.488	30.910	1.00	13.56	A
ATOM	323	ND2	ASN	A	45	25.934	54.411	31.655	1.00	14.48	A
ATOM	324	C	ASN	A	45	27.423	51.535	29.388	1.00	13.91	A
ATOM	325	O	ASN	A	45	28.573	51.781	29.755	1.00	11.13	A
ATOM	326	N	GLN	A	46	26.788	50.393	29.681	1.00	8.83	A
ATOM	327	CA	GLN	A	46	27.462	49.337	30.435	1.00	11.62	A
ATOM	328	CB	GLN	A	46	26.421	48.390	31.080	1.00	10.13	A
ATOM	329	CG	GLN	A	46	25.487	49.076	32.083	1.00	14.66	A
ATOM	330	CD	GLN	A	46	26.259	49.792	33.170	1.00	18.72	A
ATOM	331	OE1	GLN	A	46	26.983	49.165	33.937	1.00	18.65	A
ATOM	332	NE2	GLN	A	46	26.133	51.116	33.228	1.00	16.99	A
ATOM	333	C	GLN	A	46	28.408	48.543	29.491	1.00	10.06	A
ATOM	334	O	GLN	A	46	29.275	47.818	29.956	1.00	10.43	A
ATOM	335	N	PHE	A	47	28.232	48.691	28.174	1.00	8.72	A
ATOM	336	CA	PHE	A	47	29.055	48.025	27.148	1.00	7.46	A
ATOM	337	CB	PHE	A	47	28.191	47.487	25.992	1.00	7.56	A
ATOM	338	CG	PHE	A	47	27.271	46.349	26.366	1.00	12.11	A
ATOM	339	CD1	PHE	A	47	27.433	45.651	27.559	1.00	11.35	A
ATOM	340	CD2	PHE	A	47	26.268	45.945	25.474	1.00	14.21	A
ATOM	341	CE1	PHE	A	47	26.616	44.567	27.861	1.00	9.31	A
ATOM	342	CE2	PHE	A	47	25.442	44.859	25.761	1.00	9.84	A
ATOM	343	CZ	PHE	A	47	25.617	44.167	26.959	1.00	10.19	A
ATOM	344	C	PHE	A	47	30.053	48.988	26.484	1.00	12.94	A
ATOM	345	O	PHE	A	47	31.109	48.580	26.022	1.00	14.11	A
ATOM	346	N	GLY	A	48	29.677	50.257	26.378	1.00	11.49	A
ATOM	347	CA	GLY	A	48	30.551	51.222	25.731	1.00	13.51	A
ATOM	348	C	GLY	A	48	30.027	52.642	25.833	1.00	15.44	A
ATOM	349	O	GLY	A	48	28.999	52.908	26.459	1.00	16.60	A
ATOM	350	N	THR	A	49	30.722	53.566	25.187	1.00	14.37	A
ATOM	351	CA	THR	A	49	30.333	54.967	25.256	1.00	13.58	A
ATOM	352	CB	THR	A	49	31.576	55.843	25.161	1.00	14.46	A
ATOM	353	OG1	THR	A	49	32.234	55.567	23.924	1.00	15.00	A
ATOM	354	CG2	THR	A	49	32.558	55.524	26.322	1.00	13.17	A
ATOM	355	C	THR	A	49	29.301	55.436	24.216	1.00	14.30	A
ATOM	356	O	THR	A	49	28.716	56.511	24.370	1.00	12.47	A
ATOM	357	N	ASN	A	50	29.062	54.659	23.162	1.00	13.09	A
ATOM	358	CA	ASN	A	50	28.076	55.116	22.173	1.00	14.85	A
ATOM	359	CB	ASN	A	50	28.324	54.519	20.785	1.00	15.63	A
ATOM	360	CG	ASN	A	50	27.379	55.096	19.739	1.00	18.88	A
ATOM	361	OD1	ASN	A	50	26.472	55.883	20.059	1.00	19.28	A
ATOM	362	ND2	ASN	A	50	27.574	54.707	18.489	1.00	19.28	A
ATOM	363	C	ASN	A	50	26.669	54.751	22.615	1.00	14.82	A
ATOM	364	O	ASN	A	50	26.099	53.739	22.187	1.00	14.58	A
ATOM	365	N	THR	A	51	26.097	55.608	23.443	1.00	13.25	A
ATOM	366	CA	THR	A	51	24.782	55.377	23.988	1.00	15.77	A
ATOM	367	CB	THR	A	51	24.595	56.210	25.242	1.00	17.96	A
ATOM	368	OG1	THR	A	51	24.937	57.574	24.973	1.00	16.18	A
ATOM	369	CG2	THR	A	51	25.506	55.684	26.332	1.00	18.64	A
ATOM	370	C	THR	A	51	23.581	55.539	23.053	1.00	18.71	A
ATOM	371	O	THR	A	51	22.440	55.436	23.512	1.00	19.68	A
ATOM	372	N	THR	A	52	23.820	55.795	21.761	1.00	16.82	A
ATOM	373	CA	THR	A	52	22.702	55.865	20.827	1.00	19.67	A
ATOM	374	CB	THR	A	52	23.017	56.666	19.524	1.00	22.55	A
ATOM	375	OG1	THR	A	52	24.028	56.006	18.744	1.00	22.57	A

FIGURE 5 (continued)

ATOM	376	CG2	THR	A	52	23.460	58.081	19.875	1.00	21.07	A
ATOM	377	C	THR	A	52	22.342	54.428	20.446	1.00	17.92	A
ATOM	378	O	THR	A	52	21.270	54.175	19.905	1.00	17.96	A
ATOM	379	N	LYS	A	53	23.238	53.488	20.740	1.00	14.41	A
ATOM	380	CA	LYS	A	53	22.978	52.080	20.427	1.00	12.53	A
ATOM	381	CB	LYS	A	53	24.292	51.292	20.406	1.00	14.33	A
ATOM	382	CG	LYS	A	53	25.207	51.573	19.213	1.00	17.93	A
ATOM	383	CD	LYS	A	53	26.478	50.731	19.324	1.00	18.20	A
ATOM	384	CE	LYS	A	53	27.477	51.052	18.214	1.00	21.01	A
ATOM	385	NZ	LYS	A	53	26.908	50.784	16.865	1.00	22.67	A
ATOM	386	C	LYS	A	53	22.045	51.470	21.474	1.00	12.72	A
ATOM	387	O	LYS	A	53	22.075	51.869	22.635	1.00	11.93	A
ATOM	388	N	ASP	A	54	21.223	50.499	21.064	1.00	13.58	A
ATOM	389	CA	ASP	A	54	20.298	49.826	21.982	1.00	10.96	A
ATOM	390	CB	ASP	A	54	18.887	49.745	21.380	1.00	12.81	A
ATOM	391	CG	ASP	A	54	18.249	51.107	21.218	1.00	19.07	A
ATOM	392	OD1	ASP	A	54	18.010	51.529	20.059	1.00	17.31	A
ATOM	393	OD2	ASP	A	54	17.997	51.759	22.260	1.00	15.46	A
ATOM	394	C	ASP	A	54	20.819	48.416	22.246	1.00	8.44	A
ATOM	395	O	ASP	A	54	21.505	47.837	21.407	1.00	14.56	A
ATOM	396	N	VAL	A	55	20.485	47.875	23.411	1.00	12.75	A
ATOM	397	CA	VAL	A	55	20.919	46.541	23.799	1.00	12.22	A
ATOM	398	CB	VAL	A	55	21.150	46.486	25.328	1.00	7.89	A
ATOM	399	CG1	VAL	A	55	21.596	45.057	25.775	1.00	7.35	A
ATOM	400	CG2	VAL	A	55	22.229	47.518	25.707	1.00	6.23	A
ATOM	401	C	VAL	A	55	19.840	45.540	23.386	1.00	9.36	A
ATOM	402	O	VAL	A	55	18.659	45.768	23.630	1.00	11.95	A
ATOM	403	N	HIS	A	56	20.258	44.441	22.755	1.00	9.82	A
ATOM	404	CA	HIS	A	56	19.323	43.432	22.285	1.00	8.89	A
ATOM	405	CB	HIS	A	56	19.552	43.218	20.782	1.00	8.33	A
ATOM	406	CG	HIS	A	56	19.455	44.485	19.985	1.00	9.48	A
ATOM	407	CD2	HIS	A	56	20.414	45.264	19.430	1.00	11.14	A
ATOM	408	ND1	HIS	A	56	18.255	45.121	19.738	1.00	13.82	A
ATOM	409	CE1	HIS	A	56	18.483	46.236	19.064	1.00	12.14	A
ATOM	410	NE2	HIS	A	56	19.783	46.345	18.866	1.00	12.83	A
ATOM	411	C	HIS	A	56	19.389	42.097	23.033	1.00	9.87	A
ATOM	412	O	HIS	A	56	18.419	41.331	23.039	1.00	8.84	A
ATOM	413	N	TRP	A	57	20.531	41.797	23.649	1.00	10.03	A
ATOM	414	CA	TRP	A	57	20.618	40.535	24.385	1.00	12.07	A
ATOM	415	CB	TRP	A	57	20.753	39.340	23.430	1.00	7.72	A
ATOM	416	CG	TRP	A	57	22.078	39.288	22.673	1.00	9.96	A
ATOM	417	CD2	TRP	A	57	23.188	38.398	22.935	1.00	8.55	A
ATOM	418	CE2	TRP	A	57	24.161	38.642	21.945	1.00	7.37	A
ATOM	419	CE3	TRP	A	57	23.442	37.413	23.914	1.00	9.79	A
ATOM	420	CD1	TRP	A	57	22.430	40.021	21.570	1.00	9.43	A
ATOM	421	NE1	TRP	A	57	23.685	39.637	21.124	1.00	7.89	A
ATOM	422	CZ2	TRP	A	57	25.381	37.936	21.895	1.00	8.66	A
ATOM	423	CZ3	TRP	A	57	24.647	36.713	23.862	1.00	7.59	A
ATOM	424	CH2	TRP	A	57	25.605	36.982	22.852	1.00	13.66	A
ATOM	425	C	TRP	A	57	21.830	40.575	25.286	1.00	9.35	A
ATOM	426	O	TRP	A	57	22.648	41.481	25.179	1.00	9.06	A
ATOM	427	N	ALA	A	58	21.945	39.579	26.159	1.00	6.35	A
ATOM	428	CA	ALA	A	58	23.081	39.523	27.061	1.00	8.26	A
ATOM	429	CB	ALA	A	58	22.755	40.280	28.362	1.00	10.03	A
ATOM	430	C	ALA	A	58	23.471	38.101	27.407	1.00	7.97	A
ATOM	431	O	ALA	A	58	22.638	37.207	27.401	1.00	9.27	A
ATOM	432	N	GLY	A	59	24.749	37.908	27.702	1.00	9.58	A
ATOM	433	CA	GLY	A	59	25.213	36.608	28.184	1.00	7.09	A
ATOM	434	C	GLY	A	59	25.342	36.791	29.695	1.00	9.23	A
ATOM	435	O	GLY	A	59	25.779	37.846	30.159	1.00	10.14	A
ATOM	436	N	SER	A	60	24.938	35.801	30.484	1.00	5.73	A
ATOM	437	CA	SER	A	60	25.058	35.917	31.938	1.00	5.95	A
ATOM	438	CB	SER	A	60	23.815	36.613	32.535	1.00	10.17	A
ATOM	439	OG	SER	A	60	23.896	36.707	33.966	1.00	9.12	A
ATOM	440	C	SER	A	60	25.161	34.540	32.566	1.00	8.54	A
ATOM	441	O	SER	A	60	24.437	33.632	32.146	1.00	9.12	A
ATOM	442	N	ASP	A	61	26.067	34.376	33.536	1.00	9.30	A
ATOM	443	CA	ASP	A	61	26.132	33.124	34.292	1.00	8.23	A
ATOM	444	CB	ASP	A	61	27.543	32.485	34.381	1.00	6.13	A
ATOM	445	CG	ASP	A	61	28.600	33.266	33.649	1.00	13.41	A
ATOM	446	OD1	ASP	A	61	28.869	32.961	32.449	1.00	10.15	A
ATOM	447	OD2	ASP	A	61	29.150	34.191	34.281	1.00	13.11	A
ATOM	448	C	ASP	A	61	25.597	33.456	35.710	1.00	10.77	A
ATOM	449	O	ASP	A	61	25.818	32.716	36.658	1.00	11.14	A
ATOM	450	N	SER	A	62	24.914	34.595	35.833	1.00	7.59	A
ATOM	451	CA	SER	A	62	24.213	34.995	37.067	1.00	10.29	A

FIGURE 5 (continued)

ATOM	452	CB	SER	A	62	24.522	36.437	37.497	1.00	11.42	A
ATOM	453	OG	SER	A	62	23.631	36.832	38.549	1.00	11.94	A
ATOM	454	C	SER	A	62	22.721	34.944	36.706	1.00	10.70	A
ATOM	455	O	SER	A	62	22.274	35.605	35.745	1.00	9.88	A
ATOM	456	N	LYS	A	63	21.944	34.168	37.449	1.00	8.95	A
ATOM	457	CA	LYS	A	63	20.519	34.089	37.137	1.00	10.67	A
ATOM	458	CB	LYS	A	63	19.834	32.996	37.959	1.00	16.43	A
ATOM	459	CG	LYS	A	63	20.046	31.605	37.461	1.00	15.34	A
ATOM	460	CD	LYS	A	63	19.148	30.619	38.201	1.00	19.94	A
ATOM	461	CE	LYS	A	63	17.702	30.671	37.728	1.00	16.96	A
ATOM	462	NZ	LYS	A	63	16.903	29.498	38.239	1.00	14.00	A
ATOM	463	C	LYS	A	63	19.786	35.392	37.399	1.00	12.40	A
ATOM	464	O	LYS	A	63	20.192	36.183	38.257	1.00	10.37	A
ATOM	465	N	LEU	A	64	18.699	35.604	36.659	1.00	7.10	A
ATOM	466	CA	LEU	A	64	17.863	36.778	36.842	1.00	9.01	A
ATOM	467	CB	LEU	A	64	16.824	36.871	35.716	1.00	6.27	A
ATOM	468	CG	LEU	A	64	17.447	37.378	34.405	1.00	7.74	A
ATOM	469	CD1	LEU	A	64	16.586	37.016	33.190	1.00	8.96	A
ATOM	470	CD2	LEU	A	64	17.619	38.883	34.510	1.00	9.78	A
ATOM	471	C	LEU	A	64	17.168	36.569	38.197	1.00	10.06	A
ATOM	472	O	LEU	A	64	16.712	35.465	38.508	1.00	11.86	A
ATOM	473	N	THR	A	65	17.120	37.614	39.012	1.00	6.99	A
ATOM	474	CA	THR	A	65	16.503	37.481	40.334	1.00	11.54	A
ATOM	475	CB	THR	A	65	17.097	38.472	41.341	1.00	13.33	A
ATOM	476	OG1	THR	A	65	16.736	39.811	40.952	1.00	13.29	A
ATOM	477	CG2	THR	A	65	18.644	38.331	41.395	1.00	11.42	A
ATOM	478	C	THR	A	65	15.009	37.751	40.239	1.00	13.06	A
ATOM	479	O	THR	A	65	14.530	38.268	39.233	1.00	9.78	A
ATOM	480	N	ALA	A	66	14.272	37.374	41.281	1.00	11.93	A
ATOM	481	CA	ALA	A	66	12.831	37.607	41.287	1.00	16.82	A
ATOM	482	CB	ALA	A	66	12.231	37.106	42.601	1.00	17.23	A
ATOM	483	C	ALA	A	66	12.527	39.104	41.105	1.00	14.69	A
ATOM	484	O	ALA	A	66	11.587	39.467	40.409	1.00	12.67	A
ATOM	485	N	SER	A	67	13.322	39.962	41.744	1.00	15.98	A
ATOM	486	CA	SER	A	67	13.150	41.417	41.640	1.00	12.48	A
ATOM	487	CB	SER	A	67	14.108	42.166	42.579	1.00	18.87	A
ATOM	488	OG	SER	A	67	13.662	42.081	43.921	1.00	28.18	A
ATOM	489	C	SER	A	67	13.403	41.890	40.212	1.00	12.05	A
ATOM	490	O	SER	A	67	12.630	42.671	39.666	1.00	12.31	A
ATOM	491	N	GLN	A	68	14.495	41.426	39.616	1.00	8.93	A
ATOM	492	CA	GLN	A	68	14.796	41.803	38.237	1.00	8.58	A
ATOM	493	CB	GLN	A	68	16.123	41.176	37.768	1.00	11.33	A
ATOM	494	CG	GLN	A	68	17.343	41.749	38.524	1.00	12.20	A
ATOM	495	CD	GLN	A	68	18.656	41.026	38.242	1.00	15.53	A
ATOM	496	OE1	GLN	A	68	18.690	39.815	38.034	1.00	11.56	A
ATOM	497	NE2	GLN	A	68	19.743	41.770	38.255	1.00	14.33	A
ATOM	498	C	GLN	A	68	13.673	41.385	37.290	1.00	12.61	A
ATOM	499	O	GLN	A	68	13.270	42.158	36.423	1.00	10.84	A
ATOM	500	N	LEU	A	69	13.163	40.164	37.455	1.00	13.81	A
ATOM	501	CA	LEU	A	69	12.093	39.687	36.576	1.00	13.47	A
ATOM	502	CB	LEU	A	69	11.809	38.189	36.829	1.00	13.08	A
ATOM	503	CG	LEU	A	69	12.989	37.268	36.496	1.00	14.83	A
ATOM	504	CD1	LEU	A	69	12.772	35.862	37.071	1.00	16.18	A
ATOM	505	CD2	LEU	A	69	13.140	37.233	34.981	1.00	11.50	A
ATOM	506	C	LEU	A	69	10.810	40.484	36.778	1.00	13.14	A
ATOM	507	O	LEU	A	69	10.138	40.860	35.814	1.00	13.07	A
ATOM	508	N	ALA	A	70	10.465	40.728	38.034	1.00	12.61	A
ATOM	509	CA	ALA	A	70	9.227	41.443	38.328	1.00	12.01	A
ATOM	510	CB	ALA	A	70	8.951	41.453	39.841	1.00	13.19	A
ATOM	511	C	ALA	A	70	9.275	42.852	37.785	1.00	12.44	A
ATOM	512	O	ALA	A	70	8.297	43.334	37.240	1.00	16.48	A
ATOM	513	N	THR	A	71	10.419	43.512	37.928	1.00	12.49	A
ATOM	514	CA	THR	A	71	10.574	44.865	37.436	1.00	11.47	A
ATOM	515	CB	THR	A	71	11.914	45.463	37.941	1.00	18.09	A
ATOM	516	OG1	THR	A	71	11.834	45.621	39.370	1.00	19.27	A
ATOM	517	CG2	THR	A	71	12.225	46.811	37.267	1.00	13.43	A
ATOM	518	C	THR	A	71	10.501	44.905	35.902	1.00	11.57	A
ATOM	519	O	THR	A	71	9.881	45.800	35.337	1.00	15.24	A
ATOM	520	N	TYR	A	72	11.116	43.941	35.223	1.00	13.13	A
ATOM	521	CA	TYR	A	72	11.049	43.941	33.760	1.00	12.95	A
ATOM	522	CB	TYR	A	72	11.927	42.839	33.174	1.00	11.21	A
ATOM	523	CG	TYR	A	72	12.194	43.011	31.682	1.00	12.14	A
ATOM	524	CD1	TYR	A	72	13.122	43.936	31.224	1.00	11.17	A
ATOM	525	CE1	TYR	A	72	13.376	44.101	29.841	1.00	11.35	A
ATOM	526	CD2	TYR	A	72	11.515	42.239	30.736	1.00	14.03	A
ATOM	527	CE2	TYR	A	72	11.765	42.378	29.372	1.00	8.40	A

FIGURE 5 (continued)

ATOM	528	CZ	TYR	A	72	12.689	43.303	28.928	1.00	10.19	A
ATOM	529	OH	TYR	A	72	12.949	43.425	27.585	1.00	10.75	A
ATOM	530	C	TYR	A	72	9.604	43.705	33.313	1.00	13.42	A
ATOM	531	O	TYR	A	72	9.111	44.346	32.394	1.00	14.74	A
ATOM	532	N	ALA	A	73	8.943	42.763	33.970	1.00	14.68	A
ATOM	533	CA	ALA	A	73	7.563	42.423	33.650	1.00	15.37	A
ATOM	534	CB	ALA	A	73	7.090	41.293	34.556	1.00	10.74	A
ATOM	535	C	ALA	A	73	6.631	43.626	33.791	1.00	14.04	A
ATOM	536	O	ALA	A	73	5.711	43.811	32.992	1.00	13.32	A
ATOM	537	N	ALA	A	74	6.856	44.436	34.815	1.00	16.88	A
ATOM	538	CA	ALA	A	74	6.006	45.602	35.032	1.00	17.08	A
ATOM	539	CB	ALA	A	74	6.082	46.052	36.505	1.00	13.94	A
ATOM	540	C	ALA	A	74	6.354	46.768	34.118	1.00	20.94	A
ATOM	541	O	ALA	A	74	5.475	47.357	33.476	1.00	17.04	A
ATOM	542	N	ASN	A	75	7.645	47.061	34.014	1.00	15.74	A
ATOM	543	CA	ASN	A	75	8.125	48.203	33.241	1.00	17.76	A
ATOM	544	CB	ASN	A	75	9.439	48.712	33.839	1.00	19.52	A
ATOM	545	CG	ASN	A	75	9.308	49.152	35.289	1.00	24.86	A
ATOM	546	OD1	ASN	A	75	10.308	49.485	35.929	1.00	26.13	A
ATOM	547	ND2	ASN	A	75	8.084	49.150	35.816	1.00	27.41	A
ATOM	548	C	ASN	A	75	8.356	48.070	31.741	1.00	18.90	A
ATOM	549	O	ASN	A	75	8.049	48.996	30.986	1.00	16.37	A
ATOM	550	N	LYS	A	76	8.910	46.944	31.304	1.00	13.20	A
ATOM	551	CA	LYS	A	76	9.235	46.810	29.888	1.00	14.05	A
ATOM	552	CB	LYS	A	76	10.709	46.412	29.730	1.00	11.81	A
ATOM	553	CG	LYS	A	76	11.706	47.189	30.561	1.00	15.12	A
ATOM	554	CD	LYS	A	76	11.710	48.673	30.208	1.00	18.17	A
ATOM	555	CE	LYS	A	76	12.942	49.342	30.783	1.00	21.75	A
ATOM	556	NZ	LYS	A	76	12.858	50.832	30.665	1.00	23.76	A
ATOM	557	C	LYS	A	76	8.414	45.835	29.064	1.00	14.89	A
ATOM	558	O	LYS	A	76	8.184	46.053	27.874	1.00	15.18	A
ATOM	559	N	GLN	A	77	7.996	44.746	29.686	1.00	13.65	A
ATOM	560	CA	GLN	A	77	7.240	43.718	28.978	1.00	15.70	A
ATOM	561	CB	GLN	A	77	6.865	42.625	29.964	1.00	14.98	A
ATOM	562	CG	GLN	A	77	6.139	41.438	29.381	1.00	18.91	A
ATOM	563	CD	GLN	A	77	5.848	40.392	30.441	1.00	26.71	A
ATOM	564	OE1	GLN	A	77	6.747	39.965	31.167	1.00	25.14	A
ATOM	565	NE2	GLN	A	77	4.593	39.968	30.534	1.00	21.79	A
ATOM	566	C	GLN	A	77	5.989	44.205	28.222	1.00	16.81	A
ATOM	567	O	GLN	A	77	5.718	43.746	27.114	1.00	17.54	A
ATOM	568	N	PRO	A	78	5.216	45.142	28.800	1.00	19.48	A
ATOM	569	CD	PRO	A	78	5.255	45.765	30.134	1.00	12.68	A
ATOM	570	CA	PRO	A	78	4.023	45.575	28.056	1.00	15.54	A
ATOM	571	CB	PRO	A	78	3.428	46.654	28.958	1.00	19.25	A
ATOM	572	CG	PRO	A	78	3.787	46.150	30.342	1.00	17.82	A
ATOM	573	C	PRO	A	78	4.325	46.080	26.646	1.00	20.10	A
ATOM	574	O	PRO	A	78	3.614	45.748	25.692	1.00	18.30	A
ATOM	575	N	GLY	A	79	5.393	46.860	26.512	1.00	15.27	A
ATOM	576	CA	GLY	A	79	5.745	47.379	25.210	1.00	17.02	A
ATOM	577	C	GLY	A	79	6.802	46.616	24.427	1.00	20.02	A
ATOM	578	O	GLY	A	79	6.839	46.731	23.199	1.00	15.38	A
ATOM	579	N	TRP	A	80	7.639	45.830	25.111	1.00	13.75	A
ATOM	580	CA	TRP	A	80	8.723	45.092	24.440	1.00	14.43	A
ATOM	581	CB	TRP	A	80	10.062	45.359	25.136	1.00	11.39	A
ATOM	582	CG	TRP	A	80	10.549	46.780	25.071	1.00	15.13	A
ATOM	583	CD2	TRP	A	80	11.672	47.329	25.767	1.00	13.37	A
ATOM	584	CE2	TRP	A	80	11.823	48.666	25.332	1.00	13.52	A
ATOM	585	CE3	TRP	A	80	12.573	46.817	26.716	1.00	12.51	A
ATOM	586	CD1	TRP	A	80	10.068	47.779	24.271	1.00	19.04	A
ATOM	587	NE1	TRP	A	80	10.831	48.919	24.418	1.00	16.58	A
ATOM	588	CZ2	TRP	A	80	12.840	49.502	25.812	1.00	15.28	A
ATOM	589	CZ3	TRP	A	80	13.586	47.645	27.197	1.00	13.05	A
ATOM	590	CH2	TRP	A	80	13.710	48.979	26.739	1.00	16.82	A
ATOM	591	C	TRP	A	80	8.560	43.580	24.349	1.00	16.83	A
ATOM	592	O	TRP	A	80	9.361	42.909	23.685	1.00	16.92	A
ATOM	593	N	GLY	A	81	7.562	43.031	25.033	1.00	15.56	A
ATOM	594	CA	GLY	A	81	7.380	41.584	25.001	1.00	11.72	A
ATOM	595	C	GLY	A	81	8.071	40.921	26.186	1.00	13.05	A
ATOM	596	O	GLY	A	81	8.856	41.557	26.894	1.00	8.85	A
ATOM	597	N	LYS	A	82	7.784	39.638	26.395	1.00	10.46	A
ATOM	598	CA	LYS	A	82	8.374	38.882	27.499	1.00	11.96	A
ATOM	599	CB	LYS	A	82	7.702	37.506	27.608	1.00	11.82	A
ATOM	600	CG	LYS	A	82	6.341	37.497	28.315	1.00	12.27	A
ATOM	601	CD	LYS	A	82	5.578	36.167	28.137	1.00	15.83	A
ATOM	602	CE	LYS	A	82	6.296	34.971	28.782	1.00	21.44	A
ATOM	603	NZ	LYS	A	82	6.571	35.179	30.234	1.00	18.30	A

FIGURE 5 (continued)

ATOM	604	C	LYS	A	82	9.868	38.658	27.275	1.00	12.45	A
ATOM	605	O	LYS	A	82	10.313	38.530	26.126	1.00	11.99	A
ATOM	606	N	LEU	A	83	10.649	38.598	28.357	1.00	10.87	A
ATOM	607	CA	LEU	A	83	12.057	38.305	28.161	1.00	10.47	A
ATOM	608	CB	LEU	A	83	12.955	38.929	29.248	1.00	16.59	A
ATOM	609	CG	LEU	A	83	13.059	38.501	30.707	1.00	13.98	A
ATOM	610	CD1	LEU	A	83	13.627	37.083	30.856	1.00	13.97	A
ATOM	611	CD2	LEU	A	83	14.010	39.508	31.412	1.00	12.95	A
ATOM	612	C	LEU	A	83	12.191	36.790	28.142	1.00	8.84	A
ATOM	613	O	LEU	A	83	11.288	36.062	28.604	1.00	12.14	A
ATOM	614	N	ILE	A	84	13.294	36.330	27.567	1.00	9.04	A
ATOM	615	CA	ILE	A	84	13.606	34.912	27.467	1.00	7.94	A
ATOM	616	CB	ILE	A	84	13.734	34.492	25.986	1.00	11.27	A
ATOM	617	CG2	ILE	A	84	14.322	33.075	25.875	1.00	15.02	A
ATOM	618	CG1	ILE	A	84	12.356	34.567	25.306	1.00	13.46	A
ATOM	619	CD1	ILE	A	84	12.407	34.310	23.806	1.00	10.66	A
ATOM	620	C	ILE	A	84	14.957	34.682	28.151	1.00	9.44	A
ATOM	621	O	ILE	A	84	15.918	35.410	27.891	1.00	9.33	A
ATOM	622	N	GLU	A	85	15.018	33.686	29.023	1.00	7.70	A
ATOM	623	CA	GLU	A	85	16.269	33.331	29.683	1.00	8.79	A
ATOM	624	CB	GLU	A	85	16.211	33.631	31.196	1.00	7.98	A
ATOM	625	CG	GLU	A	85	17.532	33.291	31.922	1.00	8.35	A
ATOM	626	CD	GLU	A	85	17.472	33.466	33.442	1.00	9.44	A
ATOM	627	OE1	GLU	A	85	16.520	32.969	34.103	1.00	13.35	A
ATOM	628	OE2	GLU	A	85	18.408	34.077	33.998	1.00	10.18	A
ATOM	629	C	GLU	A	85	16.452	31.832	29.442	1.00	9.15	A
ATOM	630	O	GLU	A	85	15.614	31.047	29.870	1.00	10.73	A
ATOM	631	N	VAL	A	86	17.513	31.438	28.733	1.00	9.15	A
ATOM	632	CA	VAL	A	86	17.772	30.021	28.458	1.00	9.61	A
ATOM	633	CB	VAL	A	86	17.394	29.631	26.987	1.00	8.48	A
ATOM	634	CG1	VAL	A	86	15.866	29.641	26.795	1.00	11.82	A
ATOM	635	CG2	VAL	A	86	18.062	30.587	25.998	1.00	8.25	A
ATOM	636	C	VAL	A	86	19.247	29.653	28.653	1.00	12.36	A
ATOM	637	O	VAL	A	86	20.135	30.490	28.488	1.00	7.65	A
ATOM	638	N	PRO	A	87	19.530	28.392	29.034	1.00	7.50	A
ATOM	639	CD	PRO	A	87	18.611	27.261	29.245	1.00	11.19	A
ATOM	640	CA	PRO	A	87	20.927	27.986	29.213	1.00	8.03	A
ATOM	641	CB	PRO	A	87	20.806	26.551	29.747	1.00	11.47	A
ATOM	642	CG	PRO	A	87	19.531	26.065	29.123	1.00	18.08	A
ATOM	643	C	PRO	A	87	21.551	28.031	27.803	1.00	12.05	A
ATOM	644	O	PRO	A	87	20.845	27.799	26.798	1.00	11.64	A
ATOM	645	N	SER	A	88	22.844	28.346	27.739	1.00	10.05	A
ATOM	646	CA	SER	A	88	23.607	28.427	26.480	1.00	8.91	A
ATOM	647	CB	SER	A	88	24.472	29.695	26.471	1.00	6.92	A
ATOM	648	OG	SER	A	88	25.266	29.787	25.294	1.00	11.36	A
ATOM	649	C	SER	A	88	24.484	27.177	26.379	1.00	7.85	A
ATOM	650	O	SER	A	88	24.385	26.432	25.401	1.00	7.71	A
ATOM	651	N	VAL	A	89	25.365	26.993	27.368	1.00	7.73	A
ATOM	652	CA	VAL	A	89	26.218	25.802	27.481	1.00	8.66	A
ATOM	653	CB	VAL	A	89	27.639	26.010	26.874	1.00	5.11	A
ATOM	654	CG1	VAL	A	89	27.522	26.503	25.400	1.00	7.72	A
ATOM	655	CG2	VAL	A	89	28.444	27.016	27.744	1.00	8.02	A
ATOM	656	C	VAL	A	89	26.407	25.527	28.980	1.00	10.90	A
ATOM	657	O	VAL	A	89	26.037	26.356	29.809	1.00	9.82	A
ATOM	658	N	ALA	A	90	26.982	24.369	29.325	1.00	10.64	A
ATOM	659	CA	ALA	A	90	27.242	24.059	30.722	1.00	8.29	A
ATOM	660	CB	ALA	A	90	26.792	22.616	31.077	1.00	8.16	A
ATOM	661	C	ALA	A	90	28.764	24.190	30.863	1.00	7.63	A
ATOM	662	O	ALA	A	90	29.498	24.095	29.880	1.00	7.66	A
ATOM	663	N	THR	A	91	29.233	24.345	32.091	1.00	7.77	A
ATOM	664	CA	THR	A	91	30.651	24.559	32.300	1.00	9.18	A
ATOM	665	CB	THR	A	91	30.945	26.074	32.165	1.00	10.09	A
ATOM	666	OG1	THR	A	91	32.337	26.323	32.365	1.00	11.79	A
ATOM	667	CG2	THR	A	91	30.156	26.862	33.214	1.00	11.41	A
ATOM	668	C	THR	A	91	31.116	24.140	33.686	1.00	10.91	A
ATOM	669	O	THR	A	91	30.326	24.055	34.614	1.00	9.96	A
ATOM	670	N	SER	A	92	32.409	23.858	33.811	1.00	11.52	A
ATOM	671	CA	SER	A	92	32.972	23.598	35.122	1.00	9.75	A
ATOM	672	CB	SER	A	92	34.167	22.642	35.011	1.00	12.03	A
ATOM	673	OG	SER	A	92	35.213	23.181	34.186	1.00	10.62	A
ATOM	674	C	SER	A	92	33.490	24.962	35.601	1.00	10.73	A
ATOM	675	O	SER	A	92	33.397	25.974	34.883	1.00	8.53	A
ATOM	676	N	VAL	A	93	33.980	25.003	36.837	1.00	8.68	A
ATOM	677	CA	VAL	A	93	34.640	26.197	37.369	1.00	7.08	A
ATOM	678	CB	VAL	A	93	34.010	26.736	38.667	1.00	7.09	A
ATOM	679	CG1	VAL	A	93	34.896	27.906	39.215	1.00	10.40	A

FIGURE 5 (continued)

```
ATOM    680  CG2 VAL A  93      32.592  27.269  38.376  1.00 10.45      A
ATOM    681  C   VAL A  93      36.033  25.643  37.694  1.00  9.49      A
ATOM    682  O   VAL A  93      36.162  24.745  38.527  1.00 12.26      A
ATOM    683  N   ALA A  94      37.064  26.148  37.025  1.00  8.00      A
ATOM    684  CA  ALA A  94      38.425  25.645  37.236  1.00  8.64      A
ATOM    685  CB  ALA A  94      39.204  25.722  35.921  1.00  7.88      A
ATOM    686  C   ALA A  94      39.197  26.374  38.329  1.00  7.97      A
ATOM    687  O   ALA A  94      38.906  27.530  38.625  1.00  8.61      A
ATOM    688  N   ILE A  95      40.210  25.709  38.894  1.00  5.77      A
ATOM    689  CA  ILE A  95      41.016  26.290  39.963  1.00  7.30      A
ATOM    690  CB  ILE A  95      40.870  25.486  41.307  1.00  9.66      A
ATOM    691  CG2 ILE A  95      41.522  26.261  42.465  1.00  6.29      A
ATOM    692  CG1 ILE A  95      39.401  25.218  41.641  1.00 10.13      A
ATOM    693  CD1 ILE A  95      38.566  26.491  41.909  1.00 13.60      A
ATOM    694  C   ILE A  95      42.496  26.263  39.572  1.00  8.10      A
ATOM    695  O   ILE A  95      43.261  25.373  40.001  1.00 10.23      A
ATOM    696  N   PRO A  96      42.923  27.216  38.742  1.00  6.65      A
ATOM    697  CD  PRO A  96      42.133  28.263  38.063  1.00  6.16      A
ATOM    698  CA  PRO A  96      44.330  27.265  38.326  1.00  7.43      A
ATOM    699  CB  PRO A  96      44.275  28.107  37.054  1.00  9.06      A
ATOM    700  CG  PRO A  96      43.207  29.147  37.446  1.00  8.84      A
ATOM    701  C   PRO A  96      45.133  27.938  39.434  1.00 10.94      A
ATOM    702  O   PRO A  96      44.574  28.645  40.277  1.00  8.21      A
ATOM    703  N   PHE A  97      46.441  27.715  39.447  1.00  9.05      A
ATOM    704  CA  PHE A  97      47.276  28.302  40.480  1.00  8.97      A
ATOM    705  CB  PHE A  97      47.259  27.414  41.732  1.00 10.70      A
ATOM    706  CG  PHE A  97      47.748  26.015  41.477  1.00  9.86      A
ATOM    707  CD1 PHE A  97      49.114  25.720  41.524  1.00 10.13      A
ATOM    708  CD2 PHE A  97      46.862  25.010  41.121  1.00  7.97      A
ATOM    709  CE1 PHE A  97      49.589  24.436  41.211  1.00  9.97      A
ATOM    710  CE2 PHE A  97      47.326  23.704  40.802  1.00  8.94      A
ATOM    711  CZ  PHE A  97      48.709  23.433  40.852  1.00  7.63      A
ATOM    712  C   PHE A  97      48.698  28.418  39.949  1.00  9.55      A
ATOM    713  O   PHE A  97      49.054  27.761  38.962  1.00  9.51      A
ATOM    714  N   ARG A  98      49.498  29.260  40.597  1.00  8.26      A
ATOM    715  CA  ARG A  98      50.900  29.457  40.205  1.00 11.26      A
ATOM    716  CB  ARG A  98      51.149  30.927  39.808  1.00 13.41      A
ATOM    717  CG  ARG A  98      52.624  31.218  39.452  1.00 12.41      A
ATOM    718  CD  ARG A  98      52.902  32.648  39.002  1.00 15.00      A
ATOM    719  NE  ARG A  98      54.350  32.871  38.907  1.00 20.95      A
ATOM    720  CZ  ARG A  98      55.048  33.714  39.670  1.00 19.61      A
ATOM    721  NH1 ARG A  98      54.454  34.446  40.606  1.00 16.05      A
ATOM    722  NH2 ARG A  98      56.361  33.824  39.500  1.00 22.95      A
ATOM    723  C   ARG A  98      51.765  29.079  41.415  1.00  9.82      A
ATOM    724  O   ARG A  98      51.955  29.881  42.327  1.00 12.72      A
ATOM    725  N   LYS A  99      52.258  27.838  41.417  1.00 13.72      A
ATOM    726  CA  LYS A  99      53.081  27.314  42.510  1.00 14.88      A
ATOM    727  CB  LYS A  99      52.179  26.922  43.688  1.00 10.80      A
ATOM    728  CG  LYS A  99      52.899  26.401  44.919  1.00  8.32      A
ATOM    729  CD  LYS A  99      53.744  27.518  45.557  1.00 10.62      A
ATOM    730  CE  LYS A  99      54.525  27.007  46.790  1.00 10.76      A
ATOM    731  NZ  LYS A  99      55.346  28.125  47.368  1.00 13.56      A
ATOM    732  C   LYS A  99      53.809  26.095  41.956  1.00 14.43      A
ATOM    733  O   LYS A  99      53.200  25.056  41.701  1.00 15.34      A
ATOM    734  N   ALA A 100      55.120  26.226  41.769  1.00 12.67      A
ATOM    735  CA  ALA A 100      55.911  25.143  41.202  1.00 14.53      A
ATOM    736  CB  ALA A 100      57.354  25.629  40.914  1.00 14.12      A
ATOM    737  C   ALA A 100      55.960  23.900  42.072  1.00 14.42      A
ATOM    738  O   ALA A 100      55.929  23.987  43.303  1.00 16.53      A
ATOM    739  N   GLY A 101      56.061  22.751  41.409  1.00 10.16      A
ATOM    740  CA  GLY A 101      56.133  21.476  42.096  1.00 11.78      A
ATOM    741  C   GLY A 101      55.786  20.360  41.136  1.00 17.78      A
ATOM    742  O   GLY A 101      54.853  20.479  40.338  1.00 14.78      A
ATOM    743  N   GLY A 102      56.543  19.274  41.195  1.00 13.81      A
ATOM    744  CA  GLY A 102      56.273  18.156  40.313  1.00 20.81      A
ATOM    745  C   GLY A 102      55.051  17.348  40.720  1.00 16.58      A
ATOM    746  O   GLY A 102      54.498  16.627  39.898  1.00 16.24      A
ATOM    747  N   ASN A 103      54.624  17.451  41.976  1.00 17.72      A
ATOM    748  CA  ASN A 103      53.465  16.675  42.434  1.00 16.85      A
ATOM    749  CB  ASN A 103      53.372  16.694  43.963  1.00 15.22      A
ATOM    750  CG  ASN A 103      54.365  15.760  44.615  1.00 23.02      A
ATOM    751  OD1 ASN A 103      55.279  15.249  43.955  1.00 19.32      A
ATOM    752  ND2 ASN A 103      54.205  15.535  45.916  1.00 15.75      A
ATOM    753  C   ASN A 103      52.145  17.197  41.885  1.00 15.38      A
ATOM    754  O   ASN A 103      51.991  18.390  41.666  1.00 11.02      A
ATOM    755  N   ALA A 104      51.183  16.306  41.693  1.00 16.02      A
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FIGURE 5 (continued)

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ATOM    756  CA  ALA A 104      49.880  16.744  41.219  1.00 16.65      A
ATOM    757  CB  ALA A 104      49.068  15.538  40.741  1.00 20.27      A
ATOM    758  C   ALA A 104      49.170  17.427  42.395  1.00 15.98      A
ATOM    759  O   ALA A 104      49.298  16.986  43.531  1.00 15.25      A
ATOM    760  N   VAL A 105      48.470  18.530  42.127  1.00 13.62      A
ATOM    761  CA  VAL A 105      47.701  19.227  43.157  1.00 13.77      A
ATOM    762  CB  VAL A 105      47.708  20.756  42.945  1.00 15.80      A
ATOM    763  CG1 VAL A 105      46.645  21.409  43.814  1.00 16.24      A
ATOM    764  CG2 VAL A 105      49.081  21.310  43.295  1.00 15.48      A
ATOM    765  C   VAL A 105      46.273  18.699  43.026  1.00 13.93      A
ATOM    766  O   VAL A 105      45.634  18.867  41.982  1.00 11.00      A
ATOM    767  N   ASP A 106      45.781  18.059  44.085  1.00 11.30      A
ATOM    768  CA  ASP A 106      44.446  17.447  44.087  1.00 13.33      A
ATOM    769  CB  ASP A 106      44.594  15.914  44.007  1.00 15.23      A
ATOM    770  CG  ASP A 106      43.266  15.181  43.763  1.00 18.75      A
ATOM    771  OD1 ASP A 106      43.294  13.932  43.636  1.00 20.08      A
ATOM    772  OD2 ASP A 106      42.201  15.832  43.705  1.00 16.37      A
ATOM    773  C   ASP A 106      43.748  17.854  45.371  1.00 13.44      A
ATOM    774  O   ASP A 106      44.013  17.312  46.441  1.00 12.47      A
ATOM    775  N   LEU A 107      42.838  18.809  45.256  1.00 12.47      A
ATOM    776  CA  LEU A 107      42.126  19.322  46.424  1.00 10.60      A
ATOM    777  CB  LEU A 107      41.608  20.743  46.139  1.00  9.94      A
ATOM    778  CG  LEU A 107      42.656  21.830  45.874  1.00 15.11      A
ATOM    779  CD1 LEU A 107      41.992  23.049  45.233  1.00 12.77      A
ATOM    780  CD2 LEU A 107      43.332  22.222  47.191  1.00 15.50      A
ATOM    781  C   LEU A 107      40.936  18.504  46.860  1.00 11.58      A
ATOM    782  O   LEU A 107      40.118  18.134  46.029  1.00 11.26      A
ATOM    783  N   SER A 108      40.840  18.205  48.157  1.00 10.03      A
ATOM    784  CA  SER A 108      39.632  17.555  48.632  1.00  9.49      A
ATOM    785  CB  SER A 108      39.823  16.938  50.026  1.00 11.45      A
ATOM    786  OG  SER A 108      40.112  17.944  50.988  1.00 10.62      A
ATOM    787  C   SER A 108      38.686  18.762  48.734  1.00 13.88      A
ATOM    788  O   SER A 108      39.137  19.909  48.733  1.00  9.31      A
ATOM    789  N   VAL A 109      37.384  18.528  48.795  1.00 11.62      A
ATOM    790  CA  VAL A 109      36.456  19.648  48.915  1.00 12.52      A
ATOM    791  CB  VAL A 109      34.997  19.149  48.822  1.00 14.25      A
ATOM    792  CG1 VAL A 109      34.022  20.273  49.172  1.00 10.43      A
ATOM    793  CG2 VAL A 109      34.738  18.624  47.385  1.00  9.95      A
ATOM    794  C   VAL A 109      36.705  20.397  50.228  1.00  8.60      A
ATOM    795  O   VAL A 109      36.646  21.622  50.265  1.00  9.21      A
ATOM    796  N   LYS A 110      36.995  19.666  51.301  1.00  9.28      A
ATOM    797  CA  LYS A 110      37.307  20.306  52.593  1.00  7.04      A
ATOM    798  CB  LYS A 110      37.597  19.237  53.650  1.00  7.60      A
ATOM    799  CG  LYS A 110      38.038  19.793  55.030  1.00  9.51      A
ATOM    800  CD  LYS A 110      36.987  20.726  55.655  1.00  7.71      A
ATOM    801  CE  LYS A 110      37.436  21.170  57.033  1.00 15.09      A
ATOM    802  NZ  LYS A 110      36.482  22.129  57.688  1.00 11.10      A
ATOM    803  C   LYS A 110      38.532  21.234  52.452  1.00  8.55      A
ATOM    804  O   LYS A 110      38.588  22.313  53.040  1.00  9.65      A
ATOM    805  N   GLU A 111      39.530  20.803  51.696  1.00  8.56      A
ATOM    806  CA  GLU A 111      40.711  21.640  51.495  1.00 11.39      A
ATOM    807  CB  GLU A 111      41.817  20.836  50.800  1.00 13.45      A
ATOM    808  CG  GLU A 111      42.582  19.940  51.784  1.00 15.25      A
ATOM    809  CD  GLU A 111      43.527  18.960  51.098  1.00 16.99      A
ATOM    810  OE1 GLU A 111      44.310  18.296  51.808  1.00 12.70      A
ATOM    811  OE2 GLU A 111      43.477  18.851  49.860  1.00 13.80      A
ATOM    812  C   GLU A 111      40.342  22.881  50.663  1.00 12.16      A
ATOM    813  O   GLU A 111      40.751  23.998  50.983  1.00  8.45      A
ATOM    814  N   LEU A 112      39.586  22.680  49.587  1.00 11.50      A
ATOM    815  CA  LEU A 112      39.157  23.802  48.753  1.00 11.60      A
ATOM    816  CB  LEU A 112      38.127  23.339  47.728  1.00 12.29      A
ATOM    817  CG  LEU A 112      37.520  24.486  46.906  1.00 13.68      A
ATOM    818  CD1 LEU A 112      38.486  24.835  45.793  1.00 14.87      A
ATOM    819  CD2 LEU A 112      36.183  24.067  46.307  1.00 23.81      A
ATOM    820  C   LEU A 112      38.491  24.845  49.648  1.00 11.64      A
ATOM    821  O   LEU A 112      38.782  26.036  49.569  1.00  9.35      A
ATOM    822  N   CYS A 113      37.598  24.370  50.511  1.00  9.13      A
ATOM    823  CA  CYS A 113      36.869  25.251  51.407  1.00 10.02      A
ATOM    824  C   CYS A 113      37.806  26.040  52.332  1.00 10.42      A
ATOM    825  O   CYS A 113      37.620  27.243  52.550  1.00  9.94      A
ATOM    826  CB  CYS A 113      35.881  24.414  52.215  1.00  7.06      A
ATOM    827  SG  CYS A 113      34.495  23.714  51.225  1.00 12.97      A
ATOM    828  N   GLY A 114      38.815  25.357  52.854  1.00  8.53      A
ATOM    829  CA  GLY A 114      39.774  25.979  53.746  1.00  8.15      A
ATOM    830  C   GLY A 114      40.615  27.023  53.048  1.00  8.58      A
ATOM    831  O   GLY A 114      40.974  28.045  53.660  1.00  9.42      A
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FIGURE 5 (continued)

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ATOM    832  N   VAL A 115      40.929  26.780  51.773  1.00  8.91      A
ATOM    833  CA  VAL A 115      41.724  27.727  51.001  1.00 11.99      A
ATOM    834  CB  VAL A 115      42.142  27.154  49.611  1.00 10.97      A
ATOM    835  CG1 VAL A 115      42.754  28.274  48.736  1.00 12.08      A
ATOM    836  CG2 VAL A 115      43.175  26.034  49.794  1.00  9.96      A
ATOM    837  C   VAL A 115      40.933  28.999  50.769  1.00 10.50      A
ATOM    838  O   VAL A 115      41.450  30.107  50.958  1.00 10.53      A
ATOM    839  N   PHE A 116      39.672  28.856  50.383  1.00 10.04      A
ATOM    840  CA  PHE A 116      38.885  30.046  50.123  1.00 12.53      A
ATOM    841  CB  PHE A 116      37.891  29.774  49.000  1.00  8.51      A
ATOM    842  CG  PHE A 116      38.564  29.656  47.664  1.00  8.77      A
ATOM    843  CD1 PHE A 116      39.041  28.429  47.220  1.00  7.52      A
ATOM    844  CD2 PHE A 116      38.792  30.791  46.892  1.00 10.79      A
ATOM    845  CE1 PHE A 116      39.742  28.319  46.019  1.00 11.26      A
ATOM    846  CE2 PHE A 116      39.494  30.708  45.682  1.00 12.98      A
ATOM    847  CZ  PHE A 116      39.971  29.463  45.244  1.00 12.19      A
ATOM    848  C   PHE A 116      38.236  30.713  51.319  1.00 11.72      A
ATOM    849  O   PHE A 116      37.688  31.802  51.180  1.00 10.01      A
ATOM    850  N   SER A 117      38.323  30.077  52.493  1.00  7.36      A
ATOM    851  CA  SER A 117      37.802  30.669  53.722  1.00 12.12      A
ATOM    852  CB  SER A 117      37.217  29.605  54.654  1.00 11.41      A
ATOM    853  OG  SER A 117      38.251  28.827  55.231  1.00 12.73      A
ATOM    854  C   SER A 117      38.935  31.372  54.474  1.00 12.93      A
ATOM    855  O   SER A 117      38.693  32.241  55.316  1.00  9.90      A
ATOM    856  N   GLY A 118      40.169  30.988  54.174  1.00 14.10      A
ATOM    857  CA  GLY A 118      41.312  31.576  54.860  1.00 13.07      A
ATOM    858  C   GLY A 118      41.850  30.640  55.931  1.00 15.32      A
ATOM    859  O   GLY A 118      42.935  30.873  56.484  1.00 15.65      A
ATOM    860  N   ARG A 119      41.107  29.575  56.241  1.00 15.32      A
ATOM    861  CA  ARG A 119      41.550  28.622  57.266  1.00 15.10      A
ATOM    862  CB  ARG A 119      40.503  27.518  57.485  1.00 17.52      A
ATOM    863  CG  ARG A 119      40.986  26.359  58.390  1.00 19.04      A
ATOM    864  CD  ARG A 119      39.880  25.325  58.628  1.00 17.23      A
ATOM    865  NE  ARG A 119      39.338  24.771  57.377  1.00 11.41      A
ATOM    866  CZ  ARG A 119      39.828  23.717  56.727  1.00 13.77      A
ATOM    867  NH1 ARG A 119      40.895  23.061  57.188  1.00  9.19      A
ATOM    868  NH2 ARG A 119      39.239  23.317  55.607  1.00 10.56      A
ATOM    869  C   ARG A 119      42.896  27.990  56.896  1.00 14.09      A
ATOM    870  O   ARG A 119      43.749  27.784  57.757  1.00 12.49      A
ATOM    871  N   ILE A 120      43.074  27.672  55.620  1.00 14.25      A
ATOM    872  CA  ILE A 120      44.327  27.088  55.134  1.00 11.87      A
ATOM    873  CB  ILE A 120      44.066  25.956  54.113  1.00 13.86      A
ATOM    874  CG2 ILE A 120      45.373  25.443  53.529  1.00 12.88      A
ATOM    875  CG1 ILE A 120      43.349  24.796  54.812  1.00 12.97      A
ATOM    876  CD1 ILE A 120      42.920  23.638  53.863  1.00 12.93      A
ATOM    877  C   ILE A 120      45.042  28.241  54.445  1.00 16.50      A
ATOM    878  O   ILE A 120      44.606  28.704  53.391  1.00 15.43      A
ATOM    879  N   ALA A 121      46.131  28.706  55.051  1.00 15.30      A
ATOM    880  CA  ALA A 121      46.884  29.848  54.529  1.00 14.70      A
ATOM    881  CB  ALA A 121      47.111  30.850  55.640  1.00 21.39      A
ATOM    882  C   ALA A 121      48.211  29.482  53.904  1.00 15.45      A
ATOM    883  O   ALA A 121      48.868  30.329  53.284  1.00 16.44      A
ATOM    884  N   ASN A 122      48.608  28.227  54.056  1.00 12.07      A
ATOM    885  CA  ASN A 122      49.887  27.789  53.507  1.00 12.53      A
ATOM    886  CB  ASN A 122      50.853  27.467  54.660  1.00 13.64      A
ATOM    887  CG  ASN A 122      52.279  27.293  54.188  1.00 16.68      A
ATOM    888  OD1 ASN A 122      52.666  26.224  53.725  1.00 18.01      A
ATOM    889  ND2 ASN A 122      53.063  28.363  54.279  1.00 14.68      A
ATOM    890  C   ASN A 122      49.681  26.568  52.608  1.00 11.32      A
ATOM    891  O   ASN A 122      48.809  25.737  52.865  1.00 11.94      A
ATOM    892  N   TRP A 123      50.454  26.499  51.528  1.00 12.38      A
ATOM    893  CA  TRP A 123      50.365  25.390  50.580  1.00 10.94      A
ATOM    894  CB  TRP A 123      51.330  25.597  49.406  1.00 10.33      A
ATOM    895  CG  TRP A 123      50.761  26.503  48.337  1.00 12.83      A
ATOM    896  CD2 TRP A 123      49.900  26.108  47.261  1.00 10.58      A
ATOM    897  CE2 TRP A 123      49.568  27.279  46.533  1.00 12.26      A
ATOM    898  CE3 TRP A 123      49.381  24.884  46.841  1.00 12.52      A
ATOM    899  CD1 TRP A 123      50.916  27.862  48.227  1.00 15.24      A
ATOM    900  NE1 TRP A 123      50.198  28.334  47.140  1.00 12.70      A
ATOM    901  CZ2 TRP A 123      48.732  27.256  45.403  1.00 10.92      A
ATOM    902  CZ3 TRP A 123      48.547  24.863  45.710  1.00 16.36      A
ATOM    903  CH2 TRP A 123      48.237  26.043  45.012  1.00  9.72      A
ATOM    904  C   TRP A 123      50.661  24.045  51.213  1.00 13.55      A
ATOM    905  O   TRP A 123      50.284  23.006  50.676  1.00 13.98      A
ATOM    906  N   SER A 124      51.346  24.054  52.349  1.00 13.10      A
ATOM    907  CA  SER A 124      51.654  22.801  53.010  1.00 11.36      A
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FIGURE 5 (continued)

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ATOM    908  CB  SER A 124      52.670  23.038  54.135  1.00 11.89      A
ATOM    909  OG  SER A 124      52.130  23.884  55.132  1.00 14.19      A
ATOM    910  C   SER A 124      50.361  22.161  53.564  1.00 17.25      A
ATOM    911  O   SER A 124      50.354  20.974  53.924  1.00 13.81      A
ATOM    912  N   GLY A 125      49.273  22.937  53.617  1.00 13.73      A
ATOM    913  CA  GLY A 125      47.999  22.416  54.117  1.00 13.26      A
ATOM    914  C   GLY A 125      47.216  21.569  53.101  1.00 19.05      A
ATOM    915  O   GLY A 125      46.116  21.066  53.404  1.00 15.82      A
ATOM    916  N   ILE A 126      47.759  21.413  51.892  1.00 11.57      A
ATOM    917  CA  ILE A 126      47.111  20.590  50.866  1.00 13.57      A
ATOM    918  CB  ILE A 126      47.116  21.338  49.499  1.00 10.65      A
ATOM    919  CG2 ILE A 126      46.584  20.440  48.369  1.00 10.73      A
ATOM    920  CG1 ILE A 126      46.244  22.598  49.639  1.00 14.04      A
ATOM    921  CD1 ILE A 126      46.355  23.571  48.474  1.00 21.47      A
ATOM    922  C   ILE A 126      47.886  19.270  50.794  1.00 14.42      A
ATOM    923  O   ILE A 126      49.012  19.228  50.299  1.00 12.48      A
ATOM    924  N   THR A 127      47.287  18.199  51.310  1.00 14.33      A
ATOM    925  CA  THR A 127      47.974  16.918  51.341  1.00 15.70      A
ATOM    926  CB  THR A 127      47.144  15.848  52.079  1.00 20.78      A
ATOM    927  OG1 THR A 127      45.978  15.519  51.309  1.00 21.71      A
ATOM    928  CG2 THR A 127      46.719  16.379  53.462  1.00 19.06      A
ATOM    929  C   THR A 127      48.389  16.389  49.978  1.00 15.85      A
ATOM    930  O   THR A 127      47.628  16.442  49.011  1.00 15.48      A
ATOM    931  N   GLY A 128      49.627  15.907  49.925  1.00 11.25      A
ATOM    932  CA  GLY A 128      50.202  15.348  48.719  1.00 13.92      A
ATOM    933  C   GLY A 128      50.726  16.299  47.655  1.00 15.93      A
ATOM    934  O   GLY A 128      51.360  15.837  46.718  1.00 18.28      A
ATOM    935  N   ALA A 129      50.491  17.610  47.788  1.00 13.36      A
ATOM    936  CA  ALA A 129      50.929  18.558  46.765  1.00 14.53      A
ATOM    937  CB  ALA A 129      50.138  19.873  46.886  1.00 13.51      A
ATOM    938  C   ALA A 129      52.428  18.856  46.777  1.00 20.08      A
ATOM    939  O   ALA A 129      52.954  19.427  45.811  1.00 13.92      A
ATOM    940  N   GLY A 130      53.110  18.489  47.863  1.00 15.72      A
ATOM    941  CA  GLY A 130      54.552  18.715  47.931  1.00 18.22      A
ATOM    942  C   GLY A 130      54.937  20.167  47.720  1.00 17.01      A
ATOM    943  O   GLY A 130      55.944  20.485  47.088  1.00 16.95      A
ATOM    944  N   ARG A 131      54.130  21.059  48.274  1.00 14.88      A
ATOM    945  CA  ARG A 131      54.361  22.500  48.142  1.00 14.67      A
ATOM    946  CB  ARG A 131      53.312  23.102  47.190  1.00 10.65      A
ATOM    947  CG  ARG A 131      53.506  22.713  45.730  1.00 14.78      A
ATOM    948  CD  ARG A 131      52.234  22.985  44.895  1.00 13.27      A
ATOM    949  NE  ARG A 131      52.479  22.959  43.441  1.00 13.40      A
ATOM    950  CZ  ARG A 131      52.670  21.873  42.695  1.00 12.12      A
ATOM    951  NH1 ARG A 131      52.880  22.010  41.383  1.00 12.83      A
ATOM    952  NH2 ARG A 131      52.656  20.660  43.233  1.00 13.76      A
ATOM    953  C   ARG A 131      54.217  23.171  49.502  1.00 14.12      A
ATOM    954  O   ARG A 131      53.451  22.703  50.329  1.00 15.12      A
ATOM    955  N   SER A 132      54.948  24.258  49.730  1.00 12.39      A
ATOM    956  CA  SER A 132      54.830  24.987  50.990  1.00 15.94      A
ATOM    957  CB  SER A 132      55.817  24.450  52.046  1.00 22.25      A
ATOM    958  OG  SER A 132      57.143  24.690  51.644  1.00 25.99      A
ATOM    959  C   SER A 132      55.070  26.468  50.735  1.00 12.92      A
ATOM    960  O   SER A 132      55.695  26.857  49.746  1.00 16.84      A
ATOM    961  N   GLY A 133      54.570  27.300  51.634  1.00 14.33      A
ATOM    962  CA  GLY A 133      54.695  28.734  51.442  1.00 14.73      A
ATOM    963  C   GLY A 133      53.295  29.318  51.394  1.00 14.56      A
ATOM    964  O   GLY A 133      52.320  28.589  51.183  1.00 12.31      A
ATOM    965  N   PRO A 134      53.162  30.633  51.561  1.00 15.09      A
ATOM    966  CD  PRO A 134      54.254  31.607  51.743  1.00 16.35      A
ATOM    967  CA  PRO A 134      51.854  31.291  51.548  1.00 14.55      A
ATOM    968  CB  PRO A 134      52.196  32.760  51.828  1.00 20.54      A
ATOM    969  CG  PRO A 134      53.623  32.900  51.266  1.00 21.58      A
ATOM    970  C   PRO A 134      50.997  31.143  50.299  1.00 16.29      A
ATOM    971  O   PRO A 134      51.509  31.105  49.180  1.00 12.69      A
ATOM    972  N   ILE A 135      49.685  31.057  50.527  1.00 13.39      A
ATOM    973  CA  ILE A 135      48.688  30.973  49.454  1.00 13.74      A
ATOM    974  CB  ILE A 135      47.523  30.010  49.801  1.00 15.95      A
ATOM    975  CG2 ILE A 135      46.417  30.115  48.727  1.00 13.97      A
ATOM    976  CG1 ILE A 135      48.032  28.582  49.918  1.00 15.73      A
ATOM    977  CD1 ILE A 135      46.988  27.607  50.453  1.00 15.61      A
ATOM    978  C   ILE A 135      48.077  32.366  49.353  1.00 13.04      A
ATOM    979  O   ILE A 135      47.757  32.983  50.372  1.00 15.69      A
ATOM    980  N   GLN A 136      47.918  32.872  48.136  1.00 11.91      A
ATOM    981  CA  GLN A 136      47.319  34.190  47.958  1.00 11.20      A
ATOM    982  CB  GLN A 136      48.317  35.145  47.306  1.00 12.71      A
ATOM    983  CG  GLN A 136      47.892  36.594  47.337  1.00 19.42      A
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FIGURE 5 (continued)

ATOM	984	CD	GLN	A	136	48.999	37.566	46.905	1.00	23.10	A
ATOM	985	OE1	GLN	A	136	49.620	37.403	45.858	1.00	23.52	A
ATOM	986	NE2	GLN	A	136	49.233	38.585	47.714	1.00	30.84	A
ATOM	987	C	GLN	A	136	46.105	34.023	47.053	1.00	9.51	A
ATOM	988	O	GLN	A	136	46.254	33.639	45.921	1.00	9.81	A
ATOM	989	N	VAL	A	137	44.911	34.303	47.552	1.00	8.18	A
ATOM	990	CA	VAL	A	137	43.717	34.161	46.733	1.00	4.96	A
ATOM	991	CB	VAL	A	137	42.470	33.907	47.657	1.00	8.36	A
ATOM	992	CG1	VAL	A	137	41.176	34.014	46.855	1.00	5.20	A
ATOM	993	CG2	VAL	A	137	42.589	32.543	48.294	1.00	10.61	A
ATOM	994	C	VAL	A	137	43.442	35.380	45.837	1.00	9.91	A
ATOM	995	O	VAL	A	137	43.555	36.534	46.284	1.00	9.14	A
ATOM	996	N	VAL	A	138	43.124	35.114	44.566	1.00	7.01	A
ATOM	997	CA	VAL	A	138	42.735	36.134	43.600	1.00	8.67	A
ATOM	998	CB	VAL	A	138	43.437	35.976	42.226	1.00	9.91	A
ATOM	999	CG1	VAL	A	138	42.983	37.092	41.301	1.00	11.71	A
ATOM	1000	CG2	VAL	A	138	44.947	36.068	42.394	1.00	18.67	A
ATOM	1001	C	VAL	A	138	41.237	35.914	43.386	1.00	7.40	A
ATOM	1002	O	VAL	A	138	40.791	34.775	43.196	1.00	7.75	A
ATOM	1003	N	TYR	A	139	40.452	36.987	43.435	1.00	9.87	A
ATOM	1004	CA	TYR	A	139	39.009	36.871	43.256	1.00	9.42	A
ATOM	1005	CB	TYR	A	139	38.303	36.902	44.625	1.00	8.26	A
ATOM	1006	CG	TYR	A	139	38.509	38.192	45.389	1.00	9.37	A
ATOM	1007	CD1	TYR	A	139	37.570	39.211	45.322	1.00	8.61	A
ATOM	1008	CE1	TYR	A	139	37.748	40.424	46.013	1.00	9.72	A
ATOM	1009	CD2	TYR	A	139	39.659	38.397	46.177	1.00	9.71	A
ATOM	1010	CE2	TYR	A	139	39.853	39.616	46.878	1.00	12.90	A
ATOM	1011	CZ	TYR	A	139	38.890	40.623	46.786	1.00	15.66	A
ATOM	1012	OH	TYR	A	139	39.045	41.829	47.459	1.00	8.23	A
ATOM	1013	C	TYR	A	139	38.507	38.006	42.381	1.00	8.45	A
ATOM	1014	O	TYR	A	139	39.246	38.947	42.099	1.00	8.15	A
ATOM	1015	N	ARG	A	140	37.259	37.899	41.935	1.00	8.93	A
ATOM	1016	CA	ARG	A	140	36.660	38.903	41.070	1.00	7.41	A
ATOM	1017	CB	ARG	A	140	35.514	38.296	40.243	1.00	10.32	A
ATOM	1018	CG	ARG	A	140	35.991	37.317	39.148	1.00	5.86	A
ATOM	1019	CD	ARG	A	140	36.556	38.103	37.948	1.00	5.80	A
ATOM	1020	NE	ARG	A	140	35.502	38.821	37.218	1.00	7.23	A
ATOM	1021	CZ	ARG	A	140	34.659	38.232	36.376	1.00	11.87	A
ATOM	1022	NH1	ARG	A	140	34.748	36.918	36.152	1.00	5.93	A
ATOM	1023	NH2	ARG	A	140	33.715	38.952	35.769	1.00	8.31	A
ATOM	1024	C	ARG	A	140	36.129	40.063	41.895	1.00	8.44	A
ATOM	1025	O	ARG	A	140	35.327	39.896	42.832	1.00	8.91	A
ATOM	1026	N	ALA	A	141	36.583	41.242	41.523	1.00	8.44	A
ATOM	1027	CA	ALA	A	141	36.198	42.471	42.206	1.00	8.99	A
ATOM	1028	CB	ALA	A	141	37.121	43.579	41.761	1.00	12.40	A
ATOM	1029	C	ALA	A	141	34.748	42.895	41.975	1.00	11.15	A
ATOM	1030	O	ALA	A	141	34.091	43.421	42.878	1.00	9.17	A
ATOM	1031	N	GLU	A	142	34.258	42.679	40.765	1.00	10.41	A
ATOM	1032	CA	GLU	A	142	32.912	43.110	40.401	1.00	11.28	A
ATOM	1033	CB	GLU	A	142	32.944	43.735	38.995	1.00	11.17	A
ATOM	1034	CG	GLU	A	142	32.968	42.720	37.800	1.00	16.02	A
ATOM	1035	CD	GLU	A	142	34.319	41.984	37.551	1.00	14.71	A
ATOM	1036	OE1	GLU	A	142	35.102	41.758	38.492	1.00	20.26	A
ATOM	1037	OE2	GLU	A	142	34.582	41.608	36.382	1.00	15.07	A
ATOM	1038	C	GLU	A	142	31.854	42.001	40.428	1.00	15.45	A
ATOM	1039	O	GLU	A	142	32.160	40.827	40.689	1.00	11.17	A
ATOM	1040	N	VAL	A	143	30.604	42.399	40.170	1.00	13.82	A
ATOM	1041	CA	VAL	A	143	29.474	41.461	40.114	1.00	12.65	A
ATOM	1042	CB	VAL	A	143	28.155	42.192	39.792	1.00	12.26	A
ATOM	1043	CG1	VAL	A	143	27.052	41.196	39.668	1.00	17.81	A
ATOM	1044	CG2	VAL	A	143	27.822	43.174	40.870	1.00	18.80	A
ATOM	1045	C	VAL	A	143	29.770	40.456	38.996	1.00	12.06	A
ATOM	1046	O	VAL	A	143	29.785	40.814	37.811	1.00	10.75	A
ATOM	1047	N	SER	A	144	29.972	39.198	39.388	1.00	10.21	A
ATOM	1048	CA	SER	A	144	30.352	38.119	38.462	1.00	6.60	A
ATOM	1049	CB	SER	A	144	31.822	37.764	38.758	1.00	8.21	A
ATOM	1050	OG	SER	A	144	32.188	36.468	38.328	1.00	8.64	A
ATOM	1051	C	SER	A	144	29.499	36.834	38.512	1.00	7.57	A
ATOM	1052	O	SER	A	144	29.166	36.346	39.601	1.00	8.05	A
ATOM	1053	N	GLY	A	145	29.168	36.303	37.330	1.00	5.34	A
ATOM	1054	CA	GLY	A	145	28.437	35.047	37.226	1.00	7.72	A
ATOM	1055	C	GLY	A	145	29.335	33.884	37.638	1.00	7.84	A
ATOM	1056	O	GLY	A	145	28.873	32.870	38.197	1.00	6.69	A
ATOM	1057	N	THR	A	146	30.628	34.001	37.357	1.00	6.57	A
ATOM	1058	CA	THR	A	146	31.574	32.953	37.758	1.00	6.39	A
ATOM	1059	CB	THR	A	146	33.012	33.263	37.279	1.00	9.37	A

FIGURE 5 (continued)

ATOM	1060	OG1	THR	A	146	33.026	33.463	35.855	1.00	8.49	A
ATOM	1061	CG2	THR	A	146	33.928	32.087	37.613	1.00	11.25	A
ATOM	1062	C	THR	A	146	31.569	32.892	39.294	1.00	8.02	A
ATOM	1063	O	THR	A	146	31.601	31.802	39.888	1.00	8.00	A
ATOM	1064	N	THR	A	147	31.551	34.064	39.930	1.00	6.33	A
ATOM	1065	CA	THR	A	147	31.483	34.131	41.394	1.00	8.35	A
ATOM	1066	CB	THR	A	147	31.554	35.591	41.921	1.00	6.29	A
ATOM	1067	OG1	THR	A	147	32.834	36.161	41.624	1.00	7.92	A
ATOM	1068	CG2	THR	A	147	31.373	35.602	43.450	1.00	8.46	A
ATOM	1069	C	THR	A	147	30.175	33.486	41.885	1.00	5.86	A
ATOM	1070	O	THR	A	147	30.172	32.745	42.883	1.00	7.90	A
ATOM	1071	N	GLU	A	148	29.059	33.751	41.198	1.00	5.81	A
ATOM	1072	CA	GLU	A	148	27.786	33.131	41.592	1.00	5.50	A
ATOM	1073	CB	GLU	A	148	26.644	33.653	40.710	1.00	6.06	A
ATOM	1074	CG	GLU	A	148	25.284	33.004	41.058	1.00	10.99	A
ATOM	1075	CD	GLU	A	148	24.076	33.737	40.457	1.00	12.04	A
ATOM	1076	OE1	GLU	A	148	23.920	34.966	40.685	1.00	9.92	A
ATOM	1077	OE2	GLU	A	148	23.271	33.078	39.765	1.00	13.03	A
ATOM	1078	C	GLU	A	148	27.846	31.591	41.491	1.00	6.20	A
ATOM	1079	O	GLU	A	148	27.419	30.866	42.408	1.00	7.44	A
ATOM	1080	N	LEU	A	149	28.318	31.077	40.359	1.00	4.66	A
ATOM	1081	CA	LEU	A	149	28.442	29.616	40.196	1.00	6.87	A
ATOM	1082	CB	LEU	A	149	29.011	29.301	38.807	1.00	7.74	A
ATOM	1083	CG	LEU	A	149	28.105	29.569	37.591	1.00	8.75	A
ATOM	1084	CD1	LEU	A	149	28.878	29.218	36.342	1.00	10.50	A
ATOM	1085	CD2	LEU	A	149	26.804	28.721	37.678	1.00	9.52	A
ATOM	1086	C	LEU	A	149	29.376	28.980	41.254	1.00	7.07	A
ATOM	1087	O	LEU	A	149	29.127	27.865	41.754	1.00	7.65	A
ATOM	1088	N	PHE	A	150	30.473	29.670	41.568	1.00	8.71	A
ATOM	1089	CA	PHE	A	150	31.459	29.183	42.540	1.00	7.06	A
ATOM	1090	CB	PHE	A	150	32.752	30.021	42.427	1.00	6.97	A
ATOM	1091	CG	PHE	A	150	33.884	29.551	43.325	1.00	9.24	A
ATOM	1092	CD1	PHE	A	150	34.313	28.225	43.305	1.00	10.27	A
ATOM	1093	CD2	PHE	A	150	34.557	30.455	44.138	1.00	12.03	A
ATOM	1094	CE1	PHE	A	150	35.411	27.803	44.081	1.00	12.21	A
ATOM	1095	CE2	PHE	A	150	35.657	30.050	44.920	1.00	11.31	A
ATOM	1096	CZ	PHE	A	150	36.083	28.721	44.890	1.00	10.56	A
ATOM	1097	C	PHE	A	150	30.936	29.217	43.987	1.00	7.58	A
ATOM	1098	O	PHE	A	150	31.060	28.236	44.709	1.00	6.52	A
ATOM	1099	N	THR	A	151	30.350	30.334	44.409	1.00	7.57	A
ATOM	1100	CA	THR	A	151	29.836	30.437	45.770	1.00	8.97	A
ATOM	1101	CB	THR	A	151	29.548	31.938	46.193	1.00	9.78	A
ATOM	1102	OG1	THR	A	151	28.580	32.526	45.314	1.00	8.77	A
ATOM	1103	CG2	THR	A	151	30.826	32.744	46.152	1.00	7.96	A
ATOM	1104	C	THR	A	151	28.588	29.588	45.988	1.00	7.22	A
ATOM	1105	O	THR	A	151	28.274	29.245	47.131	1.00	7.49	A
ATOM	1106	N	ARG	A	152	27.873	29.229	44.916	1.00	5.13	A
ATOM	1107	CA	ARG	A	152	26.715	28.351	45.099	1.00	9.17	A
ATOM	1108	CB	ARG	A	152	25.914	28.189	43.796	1.00	9.15	A
ATOM	1109	CG	ARG	A	152	24.606	27.376	43.974	1.00	10.79	A
ATOM	1110	CD	ARG	A	152	23.671	27.529	42.755	1.00	17.61	A
ATOM	1111	NE	ARG	A	152	23.071	28.868	42.641	1.00	14.93	A
ATOM	1112	CZ	ARG	A	152	23.188	29.662	41.577	1.00	16.78	A
ATOM	1113	NH1	ARG	A	152	22.605	30.860	41.565	1.00	11.71	A
ATOM	1114	NH2	ARG	A	152	23.885	29.265	40.518	1.00	11.02	A
ATOM	1115	C	ARG	A	152	27.274	27.007	45.557	1.00	7.79	A
ATOM	1116	O	ARG	A	152	26.671	26.313	46.389	1.00	5.08	A
ATOM	1117	N	PHE	A	153	28.436	26.639	45.017	1.00	6.70	A
ATOM	1118	CA	PHE	A	153	29.101	25.395	45.413	1.00	9.70	A
ATOM	1119	CB	PHE	A	153	30.280	25.059	44.478	1.00	7.27	A
ATOM	1120	CG	PHE	A	153	30.974	23.747	44.812	1.00	6.93	A
ATOM	1121	CD1	PHE	A	153	30.451	22.532	44.389	1.00	9.41	A
ATOM	1122	CD2	PHE	A	153	32.134	23.738	45.592	1.00	9.61	A
ATOM	1123	CE1	PHE	A	153	31.069	21.315	44.747	1.00	11.43	A
ATOM	1124	CE2	PHE	A	153	32.764	22.534	45.959	1.00	13.90	A
ATOM	1125	CZ	PHE	A	153	32.229	21.323	45.537	1.00	11.19	A
ATOM	1126	C	PHE	A	153	29.640	25.503	46.842	1.00	8.50	A
ATOM	1127	O	PHE	A	153	29.455	24.586	47.638	1.00	8.41	A
ATOM	1128	N	LEU	A	154	30.320	26.599	47.167	1.00	6.84	A
ATOM	1129	CA	LEU	A	154	30.877	26.752	48.521	1.00	6.20	A
ATOM	1130	CB	LEU	A	154	31.672	28.060	48.657	1.00	6.23	A
ATOM	1131	CG	LEU	A	154	32.876	28.250	47.720	1.00	6.30	A
ATOM	1132	CD1	LEU	A	154	33.543	29.583	48.020	1.00	9.48	A
ATOM	1133	CD2	LEU	A	154	33.893	27.117	47.886	1.00	6.15	A
ATOM	1134	C	LEU	A	154	29.762	26.737	49.564	1.00	6.13	A
ATOM	1135	O	LEU	A	154	29.912	26.170	50.641	1.00	9.16	A

FIGURE 5 (continued)

ATOM	1136	N	ASN	A	155	28.652	27.376	49.233	1.00	5.19	A
ATOM	1137	CA	ASN	A	155	27.493	27.430	50.116	1.00	6.32	A
ATOM	1138	CB	ASN	A	155	26.406	28.314	49.486	1.00	11.33	A
ATOM	1139	CG	ASN	A	155	25.093	28.294	50.274	1.00	14.59	A
ATOM	1140	OD1	ASN	A	155	24.149	27.596	49.906	1.00	9.21	A
ATOM	1141	ND2	ASN	A	155	25.034	29.062	51.361	1.00	8.23	A
ATOM	1142	C	ASN	A	155	26.929	26.042	50.363	1.00	8.76	A
ATOM	1143	O	ASN	A	155	26.465	25.712	51.465	1.00	8.00	A
ATOM	1144	N	ALA	A	156	26.965	25.203	49.336	1.00	8.80	A
ATOM	1145	CA	ALA	A	156	26.418	23.867	49.493	1.00	7.63	A
ATOM	1146	CB	ALA	A	156	26.068	23.300	48.119	1.00	8.06	A
ATOM	1147	C	ALA	A	156	27.336	22.882	50.222	1.00	12.23	A
ATOM	1148	O	ALA	A	156	26.854	22.037	50.994	1.00	9.62	A
ATOM	1149	N	LYS	A	157	28.646	23.029	50.015	1.00	9.93	A
ATOM	1150	CA	LYS	A	157	29.623	22.064	50.537	1.00	10.69	A
ATOM	1151	CB	LYS	A	157	30.437	21.527	49.352	1.00	14.97	A
ATOM	1152	CG	LYS	A	157	29.604	20.877	48.227	1.00	13.56	A
ATOM	1153	CD	LYS	A	157	28.855	19.640	48.729	1.00	16.77	A
ATOM	1154	CE	LYS	A	157	28.357	18.784	47.575	1.00	22.67	A
ATOM	1155	NZ	LYS	A	157	27.652	17.546	48.069	1.00	21.73	A
ATOM	1156	C	LYS	A	157	30.611	22.438	51.638	1.00	8.73	A
ATOM	1157	O	LYS	A	157	31.215	21.552	52.245	1.00	11.63	A
ATOM	1158	N	CYS	A	158	30.821	23.725	51.876	1.00	8.12	A
ATOM	1159	CA	CYS	A	158	31.759	24.132	52.916	1.00	8.20	A
ATOM	1160	C	CYS	A	158	30.974	24.252	54.207	1.00	9.14	A
ATOM	1161	O	CYS	A	158	30.648	25.349	54.661	1.00	10.53	A
ATOM	1162	CB	CYS	A	158	32.390	25.464	52.537	1.00	10.13	A
ATOM	1163	SG	CYS	A	158	33.331	25.358	50.982	1.00	11.82	A
ATOM	1164	N	THR	A	159	30.699	23.108	54.822	1.00	8.92	A
ATOM	1165	CA	THR	A	159	29.856	23.091	56.017	1.00	6.75	A
ATOM	1166	CB	THR	A	159	28.850	21.933	55.903	1.00	10.13	A
ATOM	1167	OG1	THR	A	159	29.551	20.690	55.987	1.00	12.88	A
ATOM	1168	CG2	THR	A	159	28.146	21.989	54.527	1.00	14.84	A
ATOM	1169	C	THR	A	159	30.545	23.021	57.361	1.00	8.62	A
ATOM	1170	O	THR	A	159	29.878	22.956	58.398	1.00	7.39	A
ATOM	1171	N	THR	A	160	31.875	23.038	57.358	1.00	8.39	A
ATOM	1172	CA	THR	A	160	32.603	22.980	58.612	1.00	9.53	A
ATOM	1173	CB	THR	A	160	33.194	21.558	58.889	1.00	8.99	A
ATOM	1174	OG1	THR	A	160	34.011	21.140	57.788	1.00	12.55	A
ATOM	1175	CG2	THR	A	160	32.083	20.559	59.114	1.00	11.60	A
ATOM	1176	C	THR	A	160	33.727	24.010	58.712	1.00	10.20	A
ATOM	1177	O	THR	A	160	34.774	23.739	59.314	1.00	8.76	A
ATOM	1178	N	GLN	A	161	33.523	25.189	58.121	1.00	8.66	A
ATOM	1179	CA	GLN	A	161	34.525	26.260	58.254	1.00	9.46	A
ATOM	1180	CB	GLN	A	161	34.564	27.121	56.989	1.00	9.58	A
ATOM	1181	CG	GLN	A	161	34.956	26.309	55.742	1.00	7.83	A
ATOM	1182	CD	GLN	A	161	36.305	25.608	55.936	1.00	10.81	A
ATOM	1183	OE1	GLN	A	161	36.429	24.396	55.758	1.00	12.80	A
ATOM	1184	NE2	GLN	A	161	37.306	26.374	56.313	1.00	10.64	A
ATOM	1185	C	GLN	A	161	34.058	27.096	59.449	1.00	8.71	A
ATOM	1186	O	GLN	A	161	32.979	26.866	59.960	1.00	8.58	A
ATOM	1187	N	PRO	A	162	34.870	28.047	59.928	1.00	11.51	A
ATOM	1188	CD	PRO	A	162	36.316	28.193	59.693	1.00	10.65	A
ATOM	1189	CA	PRO	A	162	34.433	28.869	61.071	1.00	9.23	A
ATOM	1190	CB	PRO	A	162	35.631	29.780	61.326	1.00	11.89	A
ATOM	1191	CG	PRO	A	162	36.786	28.884	60.979	1.00	14.39	A
ATOM	1192	C	PRO	A	162	33.171	29.660	60.727	1.00	10.67	A
ATOM	1193	O	PRO	A	162	32.280	29.838	61.567	1.00	12.32	A
ATOM	1194	N	GLY	A	163	33.112	30.158	59.492	1.00	8.94	A
ATOM	1195	CA	GLY	A	163	31.943	30.903	59.040	1.00	11.83	A
ATOM	1196	C	GLY	A	163	31.307	30.149	57.883	1.00	11.53	A
ATOM	1197	O	GLY	A	163	31.687	28.989	57.628	1.00	9.27	A
ATOM	1198	N	THR	A	164	30.359	30.781	57.178	1.00	7.79	A
ATOM	1199	CA	THR	A	164	29.698	30.140	56.039	1.00	10.06	A
ATOM	1200	CB	THR	A	164	28.213	29.775	56.347	1.00	9.77	A
ATOM	1201	OG1	THR	A	164	27.565	30.914	56.934	1.00	12.97	A
ATOM	1202	CG2	THR	A	164	28.119	28.585	57.328	1.00	7.94	A
ATOM	1203	C	THR	A	164	29.696	31.081	54.837	1.00	10.41	A
ATOM	1204	O	THR	A	164	29.786	32.301	55.001	1.00	7.96	A
ATOM	1205	N	PHE	A	165	29.571	30.507	53.637	1.00	7.32	A
ATOM	1206	CA	PHE	A	165	29.551	31.275	52.395	1.00	9.34	A
ATOM	1207	CB	PHE	A	165	30.321	30.541	51.299	1.00	8.51	A
ATOM	1208	CG	PHE	A	165	31.799	30.451	51.539	1.00	7.69	A
ATOM	1209	CD1	PHE	A	165	32.659	31.455	51.096	1.00	8.05	A
ATOM	1210	CD2	PHE	A	165	32.338	29.338	52.181	1.00	10.52	A
ATOM	1211	CE1	PHE	A	165	34.062	31.349	51.288	1.00	6.48	A

FIGURE 5 (continued)

ATOM	1212	CE2	PHE	A	165	33.720	29.214	52.385	1.00	6.44	A
ATOM	1213	CZ	PHE	A	165	34.591	30.221	51.935	1.00	7.86	A
ATOM	1214	C	PHE	A	165	28.135	31.467	51.854	1.00	10.39	A
ATOM	1215	O	PHE	A	165	27.428	30.485	51.648	1.00	11.83	A
ATOM	1216	N	ALA	A	166	27.738	32.712	51.601	1.00	8.80	A
ATOM	1217	CA	ALA	A	166	26.424	33.000	51.006	1.00	10.97	A
ATOM	1218	CB	ALA	A	166	25.942	34.397	51.423	1.00	10.57	A
ATOM	1219	C	ALA	A	166	26.593	32.960	49.483	1.00	10.58	A
ATOM	1220	O	ALA	A	166	27.694	33.182	48.968	1.00	7.60	A
ATOM	1221	N	VAL	A	167	25.516	32.668	48.766	1.00	9.26	A
ATOM	1222	CA	VAL	A	167	25.572	32.658	47.303	1.00	7.71	A
ATOM	1223	CB	VAL	A	167	24.384	31.924	46.686	1.00	7.77	A
ATOM	1224	CG1	VAL	A	167	24.546	31.870	45.159	1.00	8.04	A
ATOM	1225	CG2	VAL	A	167	24.283	30.511	47.265	1.00	10.61	A
ATOM	1226	C	VAL	A	167	25.473	34.123	46.875	1.00	8.91	A
ATOM	1227	O	VAL	A	167	24.523	34.816	47.244	1.00	7.79	A
ATOM	1228	N	THR	A	168	26.408	34.580	46.048	1.00	8.13	A
ATOM	1229	CA	THR	A	168	26.411	35.974	45.653	1.00	6.66	A
ATOM	1230	CB	THR	A	168	27.060	36.810	46.769	1.00	13.46	A
ATOM	1231	OG1	THR	A	168	27.129	38.188	46.370	1.00	12.35	A
ATOM	1232	CG2	THR	A	168	28.478	36.311	47.040	1.00	12.28	A
ATOM	1233	C	THR	A	168	27.228	36.178	44.375	1.00	11.69	A
ATOM	1234	O	THR	A	168	27.960	35.282	43.947	1.00	11.22	A
ATOM	1235	N	THR	A	169	27.106	37.352	43.770	1.00	9.36	A
ATOM	1236	CA	THR	A	169	27.888	37.641	42.580	1.00	5.90	A
ATOM	1237	CB	THR	A	169	27.074	38.484	41.565	1.00	11.79	A
ATOM	1238	OG1	THR	A	169	26.724	39.739	42.169	1.00	9.77	A
ATOM	1239	CG2	THR	A	169	25.811	37.747	41.128	1.00	12.13	A
ATOM	1240	C	THR	A	169	29.156	38.450	42.953	1.00	9.03	A
ATOM	1241	O	THR	A	169	30.000	38.712	42.099	1.00	8.64	A
ATOM	1242	N	VAL	A	170	29.279	38.848	44.224	1.00	11.21	A
ATOM	1243	CA	VAL	A	170	30.430	39.641	44.680	1.00	11.07	A
ATOM	1244	CB	VAL	A	170	29.944	41.003	45.248	1.00	8.64	A
ATOM	1245	CG1	VAL	A	170	29.433	41.863	44.106	1.00	8.12	A
ATOM	1246	CG2	VAL	A	170	28.802	40.805	46.208	1.00	14.20	A
ATOM	1247	C	VAL	A	170	31.158	38.830	45.741	1.00	10.94	A
ATOM	1248	O	VAL	A	170	30.694	38.747	46.859	1.00	11.12	A
ATOM	1249	N	PHE	A	171	32.305	38.247	45.386	1.00	11.66	A
ATOM	1250	CA	PHE	A	171	33.003	37.367	46.312	1.00	9.52	A
ATOM	1251	CB	PHE	A	171	34.279	36.775	45.677	1.00	8.67	A
ATOM	1252	CG	PHE	A	171	34.940	35.686	46.519	1.00	10.69	A
ATOM	1253	CD1	PHE	A	171	36.009	35.978	47.358	1.00	9.84	A
ATOM	1254	CD2	PHE	A	171	34.457	34.377	46.502	1.00	14.44	A
ATOM	1255	CE1	PHE	A	171	36.593	34.986	48.184	1.00	8.85	A
ATOM	1256	CE2	PHE	A	171	35.024	33.377	47.311	1.00	12.76	A
ATOM	1257	CZ	PHE	A	171	36.096	33.686	48.158	1.00	12.60	A
ATOM	1258	C	PHE	A	171	33.353	37.977	47.661	1.00	12.55	A
ATOM	1259	O	PHE	A	171	33.292	37.294	48.679	1.00	7.64	A
ATOM	1260	N	ALA	A	172	33.704	39.257	47.677	1.00	6.57	A
ATOM	1261	CA	ALA	A	172	34.088	39.865	48.946	1.00	9.02	A
ATOM	1262	CB	ALA	A	172	34.655	41.279	48.721	1.00	9.26	A
ATOM	1263	C	ALA	A	172	32.948	39.885	49.957	1.00	11.22	A
ATOM	1264	O	ALA	A	172	33.188	40.071	51.155	1.00	10.96	A
ATOM	1265	N	ASN	A	173	31.714	39.677	49.493	1.00	8.23	A
ATOM	1266	CA	ASN	A	173	30.563	39.651	50.409	1.00	10.55	A
ATOM	1267	CB	ASN	A	173	29.361	40.396	49.822	1.00	11.87	A
ATOM	1268	CG	ASN	A	173	29.628	41.862	49.606	1.00	13.88	A
ATOM	1269	OD1	ASN	A	173	30.289	42.512	50.412	1.00	13.36	A
ATOM	1270	ND2	ASN	A	173	29.098	42.398	48.515	1.00	16.29	A
ATOM	1271	C	ASN	A	173	30.062	38.245	50.759	1.00	13.21	A
ATOM	1272	O	ASN	A	173	29.077	38.109	51.498	1.00	10.89	A
ATOM	1273	N	SER	A	174	30.716	37.212	50.238	1.00	7.67	A
ATOM	1274	CA	SER	A	174	30.250	35.859	50.468	1.00	9.24	A
ATOM	1275	CB	SER	A	174	30.869	34.905	49.429	1.00	9.01	A
ATOM	1276	OG	SER	A	174	30.359	33.580	49.598	1.00	8.15	A
ATOM	1277	C	SER	A	174	30.440	35.250	51.863	1.00	7.73	A
ATOM	1278	O	SER	A	174	29.480	34.822	52.506	1.00	8.54	A
ATOM	1279	N	TYR	A	175	31.684	35.160	52.303	1.00	6.67	A
ATOM	1280	CA	TYR	A	175	31.978	34.535	53.599	1.00	6.35	A
ATOM	1281	CB	TYR	A	175	33.493	34.371	53.735	1.00	7.83	A
ATOM	1282	CG	TYR	A	175	33.928	33.429	54.847	1.00	6.19	A
ATOM	1283	CD1	TYR	A	175	34.845	33.842	55.825	1.00	9.13	A
ATOM	1284	CE1	TYR	A	175	35.315	32.938	56.811	1.00	7.78	A
ATOM	1285	CD2	TYR	A	175	33.481	32.102	54.879	1.00	6.63	A
ATOM	1286	CE2	TYR	A	175	33.939	31.206	55.856	1.00	9.07	A
ATOM	1287	CZ	TYR	A	175	34.859	31.633	56.812	1.00	11.83	A

FIGURE 5 (continued)

ATOM	1288	OH	TYR	A	175	35.348	30.731	57.746	1.00	8.85	A
ATOM	1289	C	TYR	A	175	31.424	35.365	54.761	1.00	12.71	A
ATOM	1290	O	TYR	A	175	31.649	36.556	54.806	1.00	7.92	A
ATOM	1291	N	SER	A	176	30.695	34.727	55.683	1.00	9.13	A
ATOM	1292	CA	SER	A	176	30.104	35.431	56.828	1.00	9.94	A
ATOM	1293	CB	SER	A	176	29.372	34.433	57.737	1.00	11.72	A
ATOM	1294	OG	SER	A	176	30.248	33.426	58.245	1.00	9.80	A
ATOM	1295	C	SER	A	176	31.092	36.247	57.659	1.00	11.68	A
ATOM	1296	O	SER	A	176	30.737	37.302	58.184	1.00	12.94	A
ATOM	1297	N	LEU	A	177	32.332	35.787	57.788	1.00	10.90	A
ATOM	1298	CA	LEU	A	177	33.303	36.559	58.561	1.00	12.59	A
ATOM	1299	CB	LEU	A	177	34.231	35.613	59.349	1.00	14.55	A
ATOM	1300	CG	LEU	A	177	33.537	34.649	60.324	1.00	15.21	A
ATOM	1301	CD1	LEU	A	177	34.579	33.649	60.872	1.00	18.41	A
ATOM	1302	CD2	LEU	A	177	32.856	35.452	61.476	1.00	11.73	A
ATOM	1303	C	LEU	A	177	34.139	37.522	57.692	1.00	13.68	A
ATOM	1304	O	LEU	A	177	35.126	38.104	58.163	1.00	12.71	A
ATOM	1305	N	GLY	A	178	33.754	37.680	56.434	1.00	9.18	A
ATOM	1306	CA	GLY	A	178	34.475	38.585	55.541	1.00	12.34	A
ATOM	1307	C	GLY	A	178	35.803	38.098	54.975	1.00	12.74	A
ATOM	1308	O	GLY	A	178	36.205	36.939	55.208	1.00	13.97	A
ATOM	1309	N	LEU	A	179	36.492	38.974	54.224	1.00	9.84	A
ATOM	1310	CA	LEU	A	179	37.787	38.610	53.621	1.00	10.63	A
ATOM	1311	CB	LEU	A	179	38.078	39.437	52.350	1.00	11.33	A
ATOM	1312	CG	LEU	A	179	37.189	39.202	51.120	1.00	10.67	A
ATOM	1313	CD1	LEU	A	179	37.729	40.017	49.934	1.00	12.85	A
ATOM	1314	CD2	LEU	A	179	37.134	37.692	50.787	1.00	15.70	A
ATOM	1315	C	LEU	A	179	38.986	38.779	54.555	1.00	12.52	A
ATOM	1316	O	LEU	A	179	40.096	38.319	54.233	1.00	13.43	A
ATOM	1317	N	SER	A	180	38.788	39.426	55.702	1.00	13.88	A
ATOM	1318	CA	SER	A	180	39.910	39.635	56.612	1.00	17.84	A
ATOM	1319	CB	SER	A	180	39.438	40.187	57.954	1.00	23.37	A
ATOM	1320	OG	SER	A	180	39.006	41.521	57.770	1.00	30.75	A
ATOM	1321	C	SER	A	180	40.776	38.411	56.839	1.00	18.97	A
ATOM	1322	O	SER	A	180	41.990	38.527	56.856	1.00	16.57	A
ATOM	1323	N	PRO	A	181	40.170	37.223	57.010	1.00	17.96	A
ATOM	1324	CD	PRO	A	181	38.739	36.923	57.219	1.00	18.24	A
ATOM	1325	CA	PRO	A	181	40.989	36.023	57.228	1.00	19.35	A
ATOM	1326	CB	PRO	A	181	39.948	34.925	57.436	1.00	20.22	A
ATOM	1327	CG	PRO	A	181	38.804	35.657	58.063	1.00	20.57	A
ATOM	1328	C	PRO	A	181	41.927	35.697	56.063	1.00	24.47	A
ATOM	1329	O	PRO	A	181	42.893	34.943	56.237	1.00	26.18	A
ATOM	1330	N	LEU	A	182	41.646	36.251	54.880	1.00	17.84	A
ATOM	1331	CA	LEU	A	182	42.470	36.002	53.688	1.00	21.43	A
ATOM	1332	CB	LEU	A	182	41.615	36.019	52.410	1.00	20.15	A
ATOM	1333	CG	LEU	A	182	40.748	34.780	52.178	1.00	20.14	A
ATOM	1334	CD1	LEU	A	182	39.849	34.968	50.952	1.00	17.30	A
ATOM	1335	CD2	LEU	A	182	41.679	33.580	52.004	1.00	15.09	A
ATOM	1336	C	LEU	A	182	43.614	36.985	53.490	1.00	27.88	A
ATOM	1337	O	LEU	A	182	43.499	37.909	52.682	1.00	31.51	A
ATOM	1338	N	ALA	A	183	44.726	36.761	54.185	1.00	23.49	A
ATOM	1339	CA	ALA	A	183	45.893	37.639	54.073	1.00	26.24	A
ATOM	1340	CB	ALA	A	183	47.066	37.047	54.860	1.00	22.25	A
ATOM	1341	C	ALA	A	183	46.325	37.920	52.629	1.00	20.58	A
ATOM	1342	O	ALA	A	183	46.623	37.001	51.856	1.00	17.37	A
ATOM	1343	N	GLY	A	184	46.354	39.202	52.278	1.00	17.97	A
ATOM	1344	CA	GLY	A	184	46.762	39.603	50.949	1.00	17.46	A
ATOM	1345	C	GLY	A	184	45.908	39.186	49.755	1.00	12.78	A
ATOM	1346	O	GLY	A	184	46.413	39.159	48.636	1.00	15.39	A
ATOM	1347	N	ALA	A	185	44.634	38.878	49.956	1.00	12.15	A
ATOM	1348	CA	ALA	A	185	43.798	38.500	48.811	1.00	14.55	A
ATOM	1349	CB	ALA	A	185	42.374	38.212	49.271	1.00	14.22	A
ATOM	1350	C	ALA	A	185	43.812	39.649	47.795	1.00	16.74	A
ATOM	1351	O	ALA	A	185	43.780	40.826	48.181	1.00	15.66	A
ATOM	1352	N	VAL	A	186	43.836	39.300	46.507	1.00	9.90	A
ATOM	1353	CA	VAL	A	186	43.880	40.276	45.419	1.00	11.92	A
ATOM	1354	CB	VAL	A	186	45.093	39.969	44.484	1.00	14.98	A
ATOM	1355	CG1	VAL	A	186	45.026	40.816	43.229	1.00	13.29	A
ATOM	1356	CG2	VAL	A	186	46.398	40.226	45.244	1.00	19.64	A
ATOM	1357	C	VAL	A	186	42.608	40.254	44.571	1.00	11.79	A
ATOM	1358	O	VAL	A	186	42.152	39.182	44.149	1.00	11.34	A
ATOM	1359	N	ALA	A	187	42.035	41.430	44.331	1.00	11.06	A
ATOM	1360	CA	ALA	A	187	40.829	41.543	43.508	1.00	10.57	A
ATOM	1361	CB	ALA	A	187	39.897	42.606	44.096	1.00	12.53	A
ATOM	1362	C	ALA	A	187	41.211	41.923	42.079	1.00	13.16	A
ATOM	1363	O	ALA	A	187	42.128	42.736	41.876	1.00	14.58	A

FIGURE 5 (continued)

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ATOM   1364  N   ALA A 188      40.543  41.328  41.085  1.00  8.38      A
ATOM   1365  CA  ALA A 188      40.832  41.672  39.672  1.00  8.09      A
ATOM   1366  CB  ALA A 188      41.725  40.609  39.018  1.00 10.94      A
ATOM   1367  C   ALA A 188      39.515  41.759  38.913  1.00  9.75      A
ATOM   1368  O   ALA A 188      38.510  41.196  39.349  1.00 10.74      A
ATOM   1369  N   ILE A 189      39.543  42.434  37.766  1.00 10.19      A
ATOM   1370  CA  ILE A 189      38.355  42.646  36.936  1.00  9.71      A
ATOM   1371  CB  ILE A 189      38.300  44.126  36.487  1.00 14.84      A
ATOM   1372  CG2 ILE A 189      37.056  44.394  35.606  1.00 12.56      A
ATOM   1373  CG1 ILE A 189      38.247  45.007  37.720  1.00 13.85      A
ATOM   1374  CD1 ILE A 189      36.964  44.848  38.520  1.00 20.17      A
ATOM   1375  C   ILE A 189      38.307  41.760  35.705  1.00 11.18      A
ATOM   1376  O   ILE A 189      39.260  41.715  34.930  1.00 12.80      A
ATOM   1377  N   GLY A 190      37.185  41.062  35.518  1.00 12.93      A
ATOM   1378  CA  GLY A 190      37.039  40.181  34.368  1.00  9.66      A
ATOM   1379  C   GLY A 190      37.836  38.881  34.432  1.00 11.20      A
ATOM   1380  O   GLY A 190      38.763  38.745  35.238  1.00 12.00      A
ATOM   1381  N   SER A 191      37.494  37.919  33.570  1.00 12.31      A
ATOM   1382  CA  SER A 191      38.216  36.644  33.539  1.00 11.69      A
ATOM   1383  CB  SER A 191      37.530  35.671  32.568  1.00  8.59      A
ATOM   1384  OG  SER A 191      36.224  35.299  33.026  1.00 10.08      A
ATOM   1385  C   SER A 191      39.678  36.896  33.104  1.00 14.30      A
ATOM   1386  O   SER A 191      40.612  36.295  33.638  1.00 11.39      A
ATOM   1387  N   VAL A 192      39.880  37.809  32.156  1.00 11.76      A
ATOM   1388  CA  VAL A 192      41.235  38.101  31.704  1.00 14.84      A
ATOM   1389  CB  VAL A 192      41.273  39.029  30.449  1.00 13.34      A
ATOM   1390  CG1 VAL A 192      40.838  38.252  29.213  1.00 24.13      A
ATOM   1391  CG2 VAL A 192      40.396  40.246  30.678  1.00 29.05      A
ATOM   1392  C   VAL A 192      42.056  38.767  32.804  1.00 11.65      A
ATOM   1393  O   VAL A 192      43.247  38.485  32.940  1.00 14.10      A
ATOM   1394  N   GLY A 193      41.431  39.670  33.559  1.00 12.08      A
ATOM   1395  CA  GLY A 193      42.149  40.344  34.626  1.00 12.16      A
ATOM   1396  C   GLY A 193      42.575  39.354  35.700  1.00 14.30      A
ATOM   1397  O   GLY A 193      43.652  39.486  36.291  1.00  9.20      A
ATOM   1398  N   VAL A 194      41.725  38.369  35.976  1.00  9.32      A
ATOM   1399  CA  VAL A 194      42.069  37.370  36.992  1.00  9.16      A
ATOM   1400  CB  VAL A 194      40.845  36.459  37.341  1.00  7.74      A
ATOM   1401  CG1 VAL A 194      41.309  35.168  38.071  1.00  8.55      A
ATOM   1402  CG2 VAL A 194      39.873  37.247  38.259  1.00 11.33      A
ATOM   1403  C   VAL A 194      43.256  36.524  36.530  1.00 10.65      A
ATOM   1404  O   VAL A 194      44.158  36.255  37.318  1.00 10.00      A
ATOM   1405  N   MET A 195      43.261  36.090  35.265  1.00  9.82      A
ATOM   1406  CA  MET A 195      44.391  35.306  34.775  1.00 11.27      A
ATOM   1407  CB  MET A 195      44.125  34.727  33.381  1.00 13.33      A
ATOM   1408  CG  MET A 195      43.342  33.449  33.381  1.00 16.98      A
ATOM   1409  SD  MET A 195      43.794  32.237  34.698  1.00 19.79      A
ATOM   1410  CE  MET A 195      45.205  31.419  34.043  1.00 16.46      A
ATOM   1411  C   MET A 195      45.672  36.118  34.719  1.00 12.67      A
ATOM   1412  O   MET A 195      46.757  35.579  34.948  1.00 15.56      A
ATOM   1413  N   ALA A 196      45.566  37.401  34.385  1.00 11.82      A
ATOM   1414  CA  ALA A 196      46.750  38.239  34.346  1.00 15.74      A
ATOM   1415  CB  ALA A 196      46.404  39.633  33.833  1.00 14.20      A
ATOM   1416  C   ALA A 196      47.331  38.323  35.768  1.00 16.81      A
ATOM   1417  O   ALA A 196      48.544  38.245  35.945  1.00 15.03      A
ATOM   1418  N   ALA A 197      46.464  38.468  36.778  1.00 13.86      A
ATOM   1419  CA  ALA A 197      46.939  38.538  38.151  1.00 13.25      A
ATOM   1420  CB  ALA A 197      45.790  38.865  39.108  1.00 13.70      A
ATOM   1421  C   ALA A 197      47.547  37.203  38.542  1.00 13.49      A
ATOM   1422  O   ALA A 197      48.618  37.159  39.147  1.00 13.32      A
ATOM   1423  N   ASP A 198      46.853  36.119  38.202  1.00 12.41      A
ATOM   1424  CA  ASP A 198      47.326  34.777  38.547  1.00 16.61      A
ATOM   1425  CB  ASP A 198      46.311  33.719  38.074  1.00 18.96      A
ATOM   1426  CG  ASP A 198      46.605  32.327  38.629  1.00 29.19      A
ATOM   1427  OD1 ASP A 198      46.440  32.107  39.857  1.00 32.24      A
ATOM   1428  OD2 ASP A 198      47.004  31.449  37.834  1.00 34.04      A
ATOM   1429  C   ASP A 198      48.699  34.509  37.928  1.00 17.95      A
ATOM   1430  O   ASP A 198      49.570  33.942  38.585  1.00 18.27      A
ATOM   1431  N   ASN A 199      48.900  34.941  36.684  1.00 16.24      A
ATOM   1432  CA  ASN A 199      50.173  34.733  35.980  1.00 17.75      A
ATOM   1433  CB  ASN A 199      49.941  34.565  34.478  1.00 19.50      A
ATOM   1434  CG  ASN A 199      49.270  33.263  34.122  1.00 21.16      A
ATOM   1435  OD1 ASN A 199      49.454  32.254  34.786  1.00 29.31      A
ATOM   1436  ND2 ASN A 199      48.504  33.275  33.041  1.00 24.39      A
ATOM   1437  C   ASN A 199      51.227  35.832  36.144  1.00 20.64      A
ATOM   1438  O   ASN A 199      52.272  35.762  35.507  1.00 27.47      A
ATOM   1439  N   ASP A 200      50.973  36.838  36.970  1.00 19.22      A
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FIGURE 5 (continued)

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ATOM   1440  CA  ASP A 200      51.925  37.937  37.148  1.00 20.54      A
ATOM   1441  CB  ASP A 200      51.350  38.985  38.092  1.00 22.32      A
ATOM   1442  CG  ASP A 200      52.166  40.271  38.105  1.00 23.11      A
ATOM   1443  OD1 ASP A 200      53.356  40.256  37.713  1.00 21.11      A
ATOM   1444  OD2 ASP A 200      51.612  41.296  38.526  1.00 26.57      A
ATOM   1445  C   ASP A 200      53.252  37.431  37.716  1.00 21.98      A
ATOM   1446  O   ASP A 200      53.315  36.967  38.855  1.00 19.25      A
ATOM   1447  N   VAL A 201      54.315  37.511  36.922  1.00 21.71      A
ATOM   1448  CA  VAL A 201      55.611  37.033  37.390  1.00 24.01      A
ATOM   1449  CB  VAL A 201      56.519  36.597  36.216  1.00 23.59      A
ATOM   1450  CG1 VAL A 201      55.910  35.377  35.519  1.00 25.93      A
ATOM   1451  CG2 VAL A 201      56.710  37.754  35.246  1.00 26.53      A
ATOM   1452  C   VAL A 201      56.370  38.046  38.222  1.00 24.27      A
ATOM   1453  O   VAL A 201      57.451  37.744  38.715  1.00 30.90      A
ATOM   1454  N   THR A 202      55.817  39.241  38.402  1.00 23.14      A
ATOM   1455  CA  THR A 202      56.511  40.251  39.190  1.00 23.53      A
ATOM   1456  CB  THR A 202      56.216  41.664  38.696  1.00 22.33      A
ATOM   1457  OG1 THR A 202      54.846  41.999  38.979  1.00 24.30      A
ATOM   1458  CG2 THR A 202      56.489  41.759  37.210  1.00 25.94      A
ATOM   1459  C   THR A 202      56.171  40.184  40.677  1.00 24.49      A
ATOM   1460  O   THR A 202      56.543  41.073  41.444  1.00 25.68      A
ATOM   1461  N   THR A 203      55.440  39.147  41.076  1.00 19.97      A
ATOM   1462  CA  THR A 203      55.116  38.957  42.484  1.00 20.69      A
ATOM   1463  CB  THR A 203      53.608  39.167  42.768  1.00 26.13      A
ATOM   1464  OG1 THR A 203      52.825  38.196  42.047  1.00 25.13      A
ATOM   1465  CG2 THR A 203      53.202  40.581  42.363  1.00 26.59      A
ATOM   1466  C   THR A 203      55.523  37.521  42.834  1.00 17.47      A
ATOM   1467  O   THR A 203      55.771  36.703  41.947  1.00 18.21      A
ATOM   1468  N   ALA A 204      55.624  37.217  44.116  1.00 16.96      A
ATOM   1469  CA  ALA A 204      56.011  35.867  44.528  1.00 16.26      A
ATOM   1470  CB  ALA A 204      56.175  35.825  46.065  1.00 18.50      A
ATOM   1471  C   ALA A 204      54.978  34.832  44.092  1.00 14.92      A
ATOM   1472  O   ALA A 204      53.806  35.157  43.906  1.00 16.09      A
ATOM   1473  N   GLN A 205      55.409  33.582  43.921  1.00 16.21      A
ATOM   1474  CA  GLN A 205      54.483  32.501  43.560  1.00 16.27      A
ATOM   1475  CB  GLN A 205      55.232  31.191  43.316  1.00 15.65      A
ATOM   1476  CG  GLN A 205      56.103  31.148  42.097  1.00 22.41      A
ATOM   1477  CD  GLN A 205      56.469  29.716  41.717  1.00 29.28      A
ATOM   1478  OE1 GLN A 205      56.446  28.801  42.565  1.00 20.67      A
ATOM   1479  NE2 GLN A 205      56.813  29.510  40.442  1.00 25.77      A
ATOM   1480  C   GLN A 205      53.529  32.262  44.728  1.00 14.53      A
ATOM   1481  O   GLN A 205      53.783  32.717  45.846  1.00 14.81      A
ATOM   1482  N   GLY A 206      52.438  31.540  44.478  1.00 11.64      A
ATOM   1483  CA  GLY A 206      51.509  31.236  45.554  1.00 11.46      A
ATOM   1484  C   GLY A 206      50.042  31.518  45.284  1.00 11.44      A
ATOM   1485  O   GLY A 206      49.162  31.067  46.046  1.00  9.87      A
ATOM   1486  N   ARG A 207      49.764  32.236  44.199  1.00  7.71      A
ATOM   1487  CA  ARG A 207      48.383  32.606  43.878  1.00  7.50      A
ATOM   1488  CB  ARG A 207      48.364  33.763  42.863  1.00  9.66      A
ATOM   1489  CG  ARG A 207      48.719  35.114  43.493  1.00  7.35      A
ATOM   1490  CD  ARG A 207      48.774  36.286  42.497  1.00  6.76      A
ATOM   1491  NE  ARG A 207      49.079  37.532  43.221  1.00 10.86      A
ATOM   1492  CZ  ARG A 207      49.156  38.738  42.654  1.00 13.78      A
ATOM   1493  NH1 ARG A 207      48.957  38.881  41.350  1.00  9.77      A
ATOM   1494  NH2 ARG A 207      49.415  39.811  43.398  1.00 15.04      A
ATOM   1495  C   ARG A 207      47.500  31.475  43.389  1.00 11.20      A
ATOM   1496  O   ARG A 207      47.959  30.549  42.713  1.00 12.10      A
ATOM   1497  N   ILE A 208      46.214  31.572  43.721  1.00  8.65      A
ATOM   1498  CA  ILE A 208      45.245  30.557  43.331  1.00  8.62      A
ATOM   1499  CB  ILE A 208      45.073  29.491  44.476  1.00 11.42      A
ATOM   1500  CG2 ILE A 208      44.533  30.157  45.766  1.00  8.84      A
ATOM   1501  CG1 ILE A 208      44.158  28.359  43.984  1.00 12.09      A
ATOM   1502  CD1 ILE A 208      44.207  27.094  44.823  1.00 11.77      A
ATOM   1503  C   ILE A 208      43.924  31.286  43.056  1.00 10.31      A
ATOM   1504  O   ILE A 208      43.664  32.335  43.649  1.00 12.81      A
ATOM   1505  N   THR A 209      43.098  30.776  42.145  1.00  7.78      A
ATOM   1506  CA  THR A 209      41.825  31.470  41.864  1.00  9.01      A
ATOM   1507  CB  THR A 209      42.055  32.610  40.849  1.00 11.48      A
ATOM   1508  OG1 THR A 209      40.906  33.455  40.789  1.00 11.18      A
ATOM   1509  CG2 THR A 209      42.310  32.030  39.460  1.00 12.27      A
ATOM   1510  C   THR A 209      40.751  30.534  41.319  1.00 10.48      A
ATOM   1511  O   THR A 209      40.978  29.326  41.215  1.00 10.85      A
ATOM   1512  N   TYR A 210      39.577  31.087  40.997  1.00  8.58      A
ATOM   1513  CA  TYR A 210      38.476  30.303  40.422  1.00  8.34      A
ATOM   1514  CB  TYR A 210      37.244  30.304  41.350  1.00  4.35      A
ATOM   1515  CG  TYR A 210      36.685  31.664  41.695  1.00  7.98      A
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FIGURE 5 (continued)

ATOM	1516	CD1	TYR	A	210	35.656	32.240	40.927	1.00	6.11	A
ATOM	1517	CE1	TYR	A	210	35.153	33.509	41.235	1.00	7.73	A
ATOM	1518	CD2	TYR	A	210	37.188	32.386	42.778	1.00	6.57	A
ATOM	1519	CE2	TYR	A	210	36.699	33.643	43.086	1.00	5.93	A
ATOM	1520	CZ	TYR	A	210	35.687	34.203	42.313	1.00	8.47	A
ATOM	1521	OH	TYR	A	210	35.242	35.475	42.598	1.00	8.24	A
ATOM	1522	C	TYR	A	210	38.169	30.983	39.087	1.00	5.52	A
ATOM	1523	O	TYR	A	210	38.184	32.222	39.010	1.00	9.37	A
ATOM	1524	N	ILE	A	211	37.934	30.201	38.032	1.00	6.28	A
ATOM	1525	CA	ILE	A	211	37.720	30.832	36.735	1.00	7.52	A
ATOM	1526	CB	ILE	A	211	39.085	31.384	36.235	1.00	11.97	A
ATOM	1527	CG2	ILE	A	211	39.990	30.231	35.830	1.00	10.21	A
ATOM	1528	CG1	ILE	A	211	38.902	32.361	35.075	1.00	14.62	A
ATOM	1529	CD1	ILE	A	211	40.159	33.203	34.806	1.00	15.71	A
ATOM	1530	C	ILE	A	211	37.132	29.936	35.648	1.00	8.22	A
ATOM	1531	O	ILE	A	211	37.080	28.703	35.778	1.00	8.13	A
ATOM	1532	N	SER	A	212	36.634	30.590	34.602	1.00	9.06	A
ATOM	1533	CA	SER	A	212	36.140	29.913	33.394	1.00	9.98	A
ATOM	1534	CB	SER	A	212	35.984	30.934	32.256	1.00	8.45	A
ATOM	1535	OG	SER	A	212	35.637	30.283	31.037	1.00	9.53	A
ATOM	1536	C	SER	A	212	37.181	28.904	32.914	1.00	10.00	A
ATOM	1537	O	SER	A	212	38.361	29.234	32.812	1.00	7.50	A
ATOM	1538	N	PRO	A	213	36.761	27.668	32.585	1.00	8.50	A
ATOM	1539	CD	PRO	A	213	35.436	27.030	32.686	1.00	4.78	A
ATOM	1540	CA	PRO	A	213	37.781	26.728	32.117	1.00	8.39	A
ATOM	1541	CB	PRO	A	213	37.035	25.392	32.059	1.00	10.29	A
ATOM	1542	CG	PRO	A	213	35.578	25.849	31.743	1.00	9.33	A
ATOM	1543	C	PRO	A	213	38.360	27.149	30.777	1.00	10.79	A
ATOM	1544	O	PRO	A	213	39.433	26.698	30.390	1.00	10.83	A
ATOM	1545	N	ASP	A	214	37.668	28.038	30.074	1.00	5.80	A
ATOM	1546	CA	ASP	A	214	38.164	28.514	28.775	1.00	8.50	A
ATOM	1547	CB	ASP	A	214	37.033	29.175	27.997	1.00	7.35	A
ATOM	1548	CG	ASP	A	214	37.248	29.146	26.497	1.00	11.12	A
ATOM	1549	OD1	ASP	A	214	36.479	29.849	25.801	1.00	11.42	A
ATOM	1550	OD2	ASP	A	214	38.159	28.428	26.007	1.00	10.72	A
ATOM	1551	C	ASP	A	214	39.314	29.526	28.935	1.00	12.08	A
ATOM	1552	O	ASP	A	214	39.933	29.931	27.943	1.00	13.08	A
ATOM	1553	N	PHE	A	215	39.572	29.958	30.170	1.00	9.47	A
ATOM	1554	CA	PHE	A	215	40.662	30.901	30.459	1.00	9.63	A
ATOM	1555	CB	PHE	A	215	40.121	32.106	31.233	1.00	12.63	A
ATOM	1556	CG	PHE	A	215	39.375	33.081	30.402	1.00	9.86	A
ATOM	1557	CD1	PHE	A	215	39.957	34.301	30.067	1.00	11.72	A
ATOM	1558	CD2	PHE	A	215	38.074	32.812	29.986	1.00	11.34	A
ATOM	1559	CE1	PHE	A	215	39.250	35.250	29.332	1.00	11.89	A
ATOM	1560	CE2	PHE	A	215	37.357	33.759	29.245	1.00	6.37	A
ATOM	1561	CZ	PHE	A	215	37.949	34.976	28.921	1.00	13.90	A
ATOM	1562	C	PHE	A	215	41.748	30.286	31.356	1.00	13.88	A
ATOM	1563	O	PHE	A	215	42.837	30.865	31.480	1.00	12.28	A
ATOM	1564	N	ALA	A	216	41.463	29.131	31.976	1.00	9.02	A
ATOM	1565	CA	ALA	A	216	42.404	28.535	32.936	1.00	9.41	A
ATOM	1566	CB	ALA	A	216	41.705	27.432	33.753	1.00	9.18	A
ATOM	1567	C	ALA	A	216	43.727	28.007	32.406	1.00	13.18	A
ATOM	1568	O	ALA	A	216	44.679	27.844	33.178	1.00	16.82	A
ATOM	1569	N	ALA	A	217	43.790	27.719	31.106	1.00	12.39	A
ATOM	1570	CA	ALA	A	217	45.031	27.224	30.522	1.00	14.59	A
ATOM	1571	CB	ALA	A	217	45.094	25.693	30.625	1.00	15.34	A
ATOM	1572	C	ALA	A	217	45.136	27.660	29.063	1.00	16.52	A
ATOM	1573	O	ALA	A	217	44.128	27.958	28.418	1.00	14.71	A
ATOM	1574	N	PRO	A	218	46.358	27.690	28.517	1.00	18.85	A
ATOM	1575	CD	PRO	A	218	47.657	27.532	29.194	1.00	19.53	A
ATOM	1576	CA	PRO	A	218	46.533	28.101	27.111	1.00	17.17	A
ATOM	1577	CB	PRO	A	218	48.053	28.171	26.952	1.00	22.03	A
ATOM	1578	CG	PRO	A	218	48.553	28.433	28.357	1.00	24.10	A
ATOM	1579	C	PRO	A	218	45.889	27.162	26.076	1.00	17.95	A
ATOM	1580	O	PRO	A	218	45.490	27.606	24.986	1.00	20.60	A
ATOM	1581	N	SER	A	219	45.804	25.872	26.395	1.00	12.39	A
ATOM	1582	CA	SER	A	219	45.212	24.883	25.490	1.00	11.61	A
ATOM	1583	CB	SER	A	219	46.308	24.053	24.816	1.00	17.69	A
ATOM	1584	OG	SER	A	219	46.870	23.140	25.749	1.00	17.25	A
ATOM	1585	C	SER	A	219	44.341	23.942	26.324	1.00	14.52	A
ATOM	1586	O	SER	A	219	44.454	23.896	27.559	1.00	15.86	A
ATOM	1587	N	LEU	A	220	43.479	23.180	25.664	1.00	13.85	A
ATOM	1588	CA	LEU	A	220	42.614	22.250	26.389	1.00	13.63	A
ATOM	1589	CB	LEU	A	220	41.705	21.491	25.401	1.00	15.59	A
ATOM	1590	CG	LEU	A	220	40.632	22.337	24.707	1.00	16.07	A
ATOM	1591	CD1	LEU	A	220	39.908	21.517	23.646	1.00	15.58	A

FIGURE 5 (continued)

ATOM	1592	CD2	LEU	A	220	39.635	22.855	25.752	1.00	16.33	A
ATOM	1593	C	LEU	A	220	43.401	21.251	27.245	1.00	15.71	A
ATOM	1594	O	LEU	A	220	43.034	20.986	28.395	1.00	15.65	A
ATOM	1595	N	ALA	A	221	44.481	20.693	26.698	1.00	15.60	A
ATOM	1596	CA	ALA	A	221	45.283	19.714	27.452	1.00	18.03	A
ATOM	1597	CB	ALA	A	221	46.452	19.175	26.604	1.00	17.58	A
ATOM	1598	C	ALA	A	221	45.834	20.298	28.738	1.00	11.01	A
ATOM	1599	O	ALA	A	221	46.085	19.573	29.687	1.00	15.45	A
ATOM	1600	N	GLY	A	222	46.038	21.612	28.754	1.00	15.25	A
ATOM	1601	CA	GLY	A	222	46.561	22.267	29.947	1.00	11.71	A
ATOM	1602	C	GLY	A	222	45.641	22.101	31.144	1.00	10.72	A
ATOM	1603	O	GLY	A	222	46.105	22.139	32.280	1.00	14.13	A
ATOM	1604	N	LEU	A	223	44.340	21.938	30.914	1.00	11.19	A
ATOM	1605	CA	LEU	A	223	43.406	21.751	32.033	1.00	8.14	A
ATOM	1606	CB	LEU	A	223	41.946	21.728	31.525	1.00	9.90	A
ATOM	1607	CG	LEU	A	223	41.481	23.046	30.874	1.00	9.91	A
ATOM	1608	CD1	LEU	A	223	40.035	22.918	30.331	1.00	9.85	A
ATOM	1609	CD2	LEU	A	223	41.570	24.153	31.926	1.00	9.05	A
ATOM	1610	C	LEU	A	223	43.720	20.444	32.773	1.00	11.22	A
ATOM	1611	O	LEU	A	223	43.369	20.297	33.939	1.00	7.21	A
ATOM	1612	N	ASN	A	224	44.389	19.505	32.100	1.00	9.60	A
ATOM	1613	CA	ASN	A	224	44.742	18.231	32.727	1.00	10.35	A
ATOM	1614	CB	ASN	A	224	44.651	17.078	31.706	1.00	13.70	A
ATOM	1615	CG	ASN	A	224	43.214	16.768	31.301	1.00	15.75	A
ATOM	1616	OD1	ASN	A	224	42.347	16.610	32.146	1.00	21.72	A
ATOM	1617	ND2	ASN	A	224	42.968	16.666	30.012	1.00	14.86	A
ATOM	1618	C	ASN	A	224	46.138	18.239	33.359	1.00	12.93	A
ATOM	1619	O	ASN	A	224	46.580	17.226	33.898	1.00	14.86	A
ATOM	1620	N	ASP	A	225	46.833	19.370	33.308	1.00	8.74	A
ATOM	1621	CA	ASP	A	225	48.163	19.437	33.932	1.00	12.69	A
ATOM	1622	CB	ASP	A	225	49.031	20.467	33.199	1.00	11.40	A
ATOM	1623	CG	ASP	A	225	50.402	20.654	33.843	1.00	15.89	A
ATOM	1624	OD1	ASP	A	225	50.673	20.076	34.922	1.00	14.10	A
ATOM	1625	OD2	ASP	A	225	51.211	21.401	33.261	1.00	16.19	A
ATOM	1626	C	ASP	A	225	47.960	19.844	35.398	1.00	13.53	A
ATOM	1627	O	ASP	A	225	47.776	21.016	35.691	1.00	10.79	A
ATOM	1628	N	ALA	A	226	48.035	18.882	36.317	1.00	10.49	A
ATOM	1629	CA	ALA	A	226	47.792	19.178	37.720	1.00	9.18	A
ATOM	1630	CB	ALA	A	226	47.424	17.889	38.478	1.00	13.20	A
ATOM	1631	C	ALA	A	226	48.881	19.939	38.461	1.00	12.23	A
ATOM	1632	O	ALA	A	226	48.773	20.144	39.678	1.00	13.15	A
ATOM	1633	N	THR	A	227	49.935	20.347	37.762	1.00	10.64	A
ATOM	1634	CA	THR	A	227	50.955	21.148	38.426	1.00	10.50	A
ATOM	1635	CB	THR	A	227	52.405	20.854	37.917	1.00	15.63	A
ATOM	1636	OG1	THR	A	227	52.541	21.287	36.561	1.00	13.88	A
ATOM	1637	CG2	THR	A	227	52.718	19.374	38.009	1.00	16.59	A
ATOM	1638	C	THR	A	227	50.620	22.628	38.154	1.00	9.17	A
ATOM	1639	O	THR	A	227	51.320	23.509	38.626	1.00	10.52	A
ATOM	1640	N	LYS	A	228	49.530	22.876	37.414	1.00	9.27	A
ATOM	1641	CA	LYS	A	228	49.079	24.226	37.069	1.00	12.05	A
ATOM	1642	CB	LYS	A	228	49.378	24.511	35.594	1.00	15.38	A
ATOM	1643	CG	LYS	A	228	50.877	24.607	35.272	1.00	22.71	A
ATOM	1644	CD	LYS	A	228	51.125	24.652	33.758	1.00	20.66	A
ATOM	1645	CE	LYS	A	228	52.613	24.720	33.447	1.00	26.84	A
ATOM	1646	NZ	LYS	A	228	53.205	25.974	33.986	1.00	37.16	A
ATOM	1647	C	LYS	A	228	47.576	24.453	37.313	1.00	8.78	A
ATOM	1648	O	LYS	A	228	47.153	25.574	37.634	1.00	9.99	A
ATOM	1649	N	VAL	A	229	46.777	23.407	37.100	1.00	9.98	A
ATOM	1650	CA	VAL	A	229	45.327	23.465	37.282	1.00	6.71	A
ATOM	1651	CB	VAL	A	229	44.611	23.300	35.939	1.00	8.87	A
ATOM	1652	CG1	VAL	A	229	43.082	23.303	36.150	1.00	10.77	A
ATOM	1653	CG2	VAL	A	229	45.019	24.468	34.988	1.00	10.90	A
ATOM	1654	C	VAL	A	229	44.913	22.339	38.245	1.00	10.51	A
ATOM	1655	O	VAL	A	229	45.107	21.154	37.967	1.00	8.04	A
ATOM	1656	N	ALA	A	230	44.343	22.706	39.383	1.00	10.29	A
ATOM	1657	CA	ALA	A	230	43.985	21.696	40.387	1.00	8.30	A
ATOM	1658	CB	ALA	A	230	43.612	22.380	41.677	1.00	10.71	A
ATOM	1659	C	ALA	A	230	42.900	20.691	40.064	1.00	12.18	A
ATOM	1660	O	ALA	A	230	41.884	21.020	39.435	1.00	12.58	A
ATOM	1661	N	ARG	A	231	43.120	19.452	40.501	1.00	8.23	A
ATOM	1662	CA	ARG	A	231	42.080	18.436	40.382	1.00	8.98	A
ATOM	1663	CB	ARG	A	231	42.656	17.021	40.495	1.00	11.67	A
ATOM	1664	CG	ARG	A	231	43.433	16.581	39.265	1.00	14.58	A
ATOM	1665	CD	ARG	A	231	44.130	15.244	39.487	1.00	18.76	A
ATOM	1666	NE	ARG	A	231	44.972	14.941	38.336	1.00	19.63	A
ATOM	1667	CZ	ARG	A	231	45.931	14.029	38.331	1.00	26.24	A

FIGURE 5 (continued)

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ATOM   1668  NH1 ARG A 231      46.184  13.312  39.426  1.00 22.17      A
ATOM   1669  NH2 ARG A 231      46.649  13.848  37.228  1.00 31.31      A
ATOM   1670  C   ARG A 231      41.271  18.738  41.632  1.00  8.66      A
ATOM   1671  O   ARG A 231      41.801  19.332  42.582  1.00 13.24      A
ATOM   1672  N   THR A 232      39.997  18.371  41.640  1.00  9.11      A
ATOM   1673  CA  THR A 232      39.180  18.607  42.822  1.00 11.84      A
ATOM   1674  CB  THR A 232      38.236  19.820  42.623  1.00 13.64      A
ATOM   1675  OG1 THR A 232      39.017  21.004  42.384  1.00 17.60      A
ATOM   1676  CG2 THR A 232      37.382  20.025  43.883  1.00 14.43      A
ATOM   1677  C   THR A 232      38.357  17.351  43.071  1.00  9.12      A
ATOM   1678  O   THR A 232      37.869  16.747  42.118  1.00 13.13      A
ATOM   1679  N   GLY A 233      38.240  16.934  44.332  1.00  9.55      A
ATOM   1680  CA  GLY A 233      37.466  15.739  44.636  1.00 13.57      A
ATOM   1681  C   GLY A 233      38.197  14.616  45.364  1.00 14.09      A
ATOM   1682  O   GLY A 233      37.634  13.556  45.591  1.00 16.30      A
ATOM   1683  N   LYS A 234      39.460  14.831  45.706  1.00 14.67      A
ATOM   1684  CA  LYS A 234      40.226  13.834  46.438  1.00 15.04      A
ATOM   1685  CB  LYS A 234      41.577  14.442  46.830  1.00 13.37      A
ATOM   1686  CG  LYS A 234      42.483  13.576  47.688  1.00 14.40      A
ATOM   1687  CD  LYS A 234      43.807  14.314  47.968  1.00 17.84      A
ATOM   1688  CE  LYS A 234      43.594  15.567  48.839  1.00 15.78      A
ATOM   1689  NZ  LYS A 234      44.766  16.501  48.832  1.00 12.74      A
ATOM   1690  C   LYS A 234      39.450  13.411  47.697  1.00 17.96      A
ATOM   1691  O   LYS A 234      38.826  14.240  48.369  1.00 13.45      A
ATOM   1692  N   GLY A 235      39.489  12.124  48.031  1.00 15.80      A
ATOM   1693  CA  GLY A 235      38.785  11.694  49.223  1.00 15.51      A
ATOM   1694  C   GLY A 235      38.764  10.191  49.402  1.00 19.91      A
ATOM   1695  O   GLY A 235      39.586   9.472  48.825  1.00 21.77      A
ATOM   1696  N   SER A 236      37.811   9.731  50.204  1.00 21.18      A
ATOM   1697  CA  SER A 236      37.624   8.311  50.489  1.00 24.63      A
ATOM   1698  CB  SER A 236      38.018   8.004  51.929  1.00 25.33      A
ATOM   1699  OG  SER A 236      39.359   8.397  52.161  1.00 33.33      A
ATOM   1700  C   SER A 236      36.159   7.969  50.291  1.00 26.45      A
ATOM   1701  O   SER A 236      35.282   8.624  50.855  1.00 27.89      A
ATOM   1702  N   SER A 237      35.891   6.947  49.488  1.00 22.58      A
ATOM   1703  CA  SER A 237      34.522   6.520  49.238  1.00 23.79      A
ATOM   1704  CB  SER A 237      34.123   6.799  47.786  1.00 25.37      A
ATOM   1705  OG  SER A 237      34.019   8.197  47.578  1.00 38.24      A
ATOM   1706  C   SER A 237      34.429   5.036  49.514  1.00 21.92      A
ATOM   1707  O   SER A 237      35.244   4.267  49.009  1.00 20.25      A
ATOM   1708  N   SER A 238      33.423   4.640  50.295  1.00 25.14      A
ATOM   1709  CA  SER A 238      33.233   3.236  50.662  1.00 24.45      A
ATOM   1710  CB  SER A 238      32.716   2.427  49.471  1.00 27.22      A
ATOM   1711  OG  SER A 238      31.371   2.785  49.163  1.00 39.35      A
ATOM   1712  C   SER A 238      34.559   2.670  51.159  1.00 23.39      A
ATOM   1713  O   SER A 238      34.961   1.557  50.809  1.00 24.29      A
ATOM   1714  N   GLY A 239      35.249   3.468  51.966  1.00 24.50      A
ATOM   1715  CA  GLY A 239      36.519   3.040  52.524  1.00 25.11      A
ATOM   1716  C   GLY A 239      37.705   2.973  51.584  1.00 28.40      A
ATOM   1717  O   GLY A 239      38.755   2.452  51.969  1.00 28.03      A
ATOM   1718  N   GLY A 240      37.563   3.495  50.365  1.00 21.59      A
ATOM   1719  CA  GLY A 240      38.677   3.459  49.431  1.00 26.05      A
ATOM   1720  C   GLY A 240      39.082   4.858  48.984  1.00 24.32      A
ATOM   1721  O   GLY A 240      38.218   5.685  48.714  1.00 23.70      A
ATOM   1722  N   GLY A 241      40.386   5.121  48.920  1.00 21.49      A
ATOM   1723  CA  GLY A 241      40.873   6.422  48.500  1.00 27.38      A
ATOM   1724  C   GLY A 241      40.495   6.715  47.058  1.00 28.81      A
ATOM   1725  O   GLY A 241      40.585   5.840  46.200  1.00 28.58      A
ATOM   1726  N   ALA A 242      40.057   7.939  46.784  1.00 24.66      A
ATOM   1727  CA  ALA A 242      39.663   8.303  45.434  1.00 22.08      A
ATOM   1728  CB  ALA A 242      38.159   8.527  45.367  1.00 25.95      A
ATOM   1729  C   ALA A 242      40.385   9.573  45.043  1.00 22.46      A
ATOM   1730  O   ALA A 242      40.541  10.472  45.869  1.00 16.67      A
ATOM   1731  N   GLU A 243      40.813   9.647  43.785  1.00 16.24      A
ATOM   1732  CA  GLU A 243      41.502  10.830  43.289  1.00 18.78      A
ATOM   1733  CB  GLU A 243      42.444  10.473  42.132  1.00 23.30      A
ATOM   1734  CG  GLU A 243      43.643   9.624  42.499  1.00 31.37      A
ATOM   1735  CD  GLU A 243      44.658   9.584  41.368  1.00 37.64      A
ATOM   1736  OE1 GLU A 243      44.234   9.507  40.195  1.00 38.59      A
ATOM   1737  OE2 GLU A 243      45.876   9.628  41.644  1.00 41.94      A
ATOM   1738  C   GLU A 243      40.469  11.817  42.757  1.00 15.80      A
ATOM   1739  O   GLU A 243      39.417  11.406  42.285  1.00 17.65      A
ATOM   1740  N   GLY A 244      40.765  13.111  42.827  1.00 15.34      A
ATOM   1741  CA  GLY A 244      39.832  14.101  42.286  1.00 16.23      A
ATOM   1742  C   GLY A 244      39.994  14.161  40.770  1.00 16.48      A
ATOM   1743  O   GLY A 244      40.894  13.528  40.228  1.00 14.37      A
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FIGURE 5 (continued)

ATOM	1744	N	LYS	A	245	39.148	14.939	40.096	1.00	14.99	A
ATOM	1745	CA	LYS	A	245	39.186	15.079	38.632	1.00	14.88	A
ATOM	1746	CB	LYS	A	245	37.792	14.795	38.060	1.00	13.06	A
ATOM	1747	CG	LYS	A	245	37.294	13.363	38.289	1.00	22.95	A
ATOM	1748	CD	LYS	A	245	38.174	12.353	37.540	1.00	27.44	A
ATOM	1749	CE	LYS	A	245	37.596	10.939	37.643	1.00	27.64	A
ATOM	1750	NZ	LYS	A	245	37.298	10.599	39.063	1.00	36.34	A
ATOM	1751	C	LYS	A	245	39.617	16.471	38.165	1.00	13.81	A
ATOM	1752	O	LYS	A	245	39.580	17.431	38.932	1.00	10.66	A
ATOM	1753	N	SER	A	246	40.022	16.572	36.902	1.00	14.72	A
ATOM	1754	CA	SER	A	246	40.405	17.856	36.344	1.00	11.87	A
ATOM	1755	CB	SER	A	246	41.299	17.687	35.104	1.00	12.31	A
ATOM	1756	OG	SER	A	246	40.515	17.215	34.011	1.00	9.67	A
ATOM	1757	C	SER	A	246	39.095	18.500	35.913	1.00	10.79	A
ATOM	1758	O	SER	A	246	38.076	17.815	35.735	1.00	10.08	A
ATOM	1759	N	PRO	A	247	39.114	19.825	35.698	1.00	10.98	A
ATOM	1760	CD	PRO	A	247	40.243	20.747	35.947	1.00	7.03	A
ATOM	1761	CA	PRO	A	247	37.909	20.545	35.275	1.00	9.29	A
ATOM	1762	CB	PRO	A	247	38.210	21.988	35.692	1.00	7.19	A
ATOM	1763	CG	PRO	A	247	39.737	22.094	35.385	1.00	9.12	A
ATOM	1764	C	PRO	A	247	37.632	20.416	33.765	1.00	9.99	A
ATOM	1765	O	PRO	A	247	36.865	21.197	33.222	1.00	11.54	A
ATOM	1766	N	ALA	A	248	38.253	19.449	33.083	1.00	9.23	A
ATOM	1767	CA	ALA	A	248	37.992	19.278	31.638	1.00	12.63	A
ATOM	1768	CB	ALA	A	248	38.832	18.097	31.069	1.00	10.35	A
ATOM	1769	C	ALA	A	248	36.487	19.021	31.431	1.00	15.07	A
ATOM	1770	O	ALA	A	248	35.838	18.390	32.278	1.00	11.60	A
ATOM	1771	N	ALA	A	249	35.935	19.497	30.311	1.00	12.95	A
ATOM	1772	CA	ALA	A	249	34.498	19.332	30.037	1.00	11.90	A
ATOM	1773	CB	ALA	A	249	34.141	19.886	28.633	1.00	12.61	A
ATOM	1774	C	ALA	A	249	34.037	17.890	30.149	1.00	15.30	A
ATOM	1775	O	ALA	A	249	32.953	17.617	30.666	1.00	14.63	A
ATOM	1776	N	ALA	A	250	34.845	16.949	29.672	1.00	14.76	A
ATOM	1777	CA	ALA	A	250	34.426	15.542	29.769	1.00	18.41	A
ATOM	1778	CB	ALA	A	250	35.486	14.623	29.168	1.00	15.53	A
ATOM	1779	C	ALA	A	250	34.118	15.102	31.200	1.00	15.76	A
ATOM	1780	O	ALA	A	250	33.366	14.154	31.410	1.00	14.59	A
ATOM	1781	N	ASN	A	251	34.677	15.785	32.190	1.00	14.82	A
ATOM	1782	CA	ASN	A	251	34.433	15.380	33.575	1.00	13.85	A
ATOM	1783	CB	ASN	A	251	35.665	15.696	34.441	1.00	12.26	A
ATOM	1784	CG	ASN	A	251	36.880	14.885	34.022	1.00	14.85	A
ATOM	1785	OD1	ASN	A	251	36.755	13.712	33.653	1.00	14.23	A
ATOM	1786	ND2	ASN	A	251	38.056	15.487	34.091	1.00	13.09	A
ATOM	1787	C	ASN	A	251	33.168	15.968	34.210	1.00	16.10	A
ATOM	1788	O	ASN	A	251	32.877	15.686	35.357	1.00	14.41	A
ATOM	1789	N	SER	A	252	32.431	16.806	33.482	1.00	13.25	A
ATOM	1790	CA	SER	A	252	31.191	17.346	34.039	1.00	10.81	A
ATOM	1791	CB	SER	A	252	31.262	18.868	34.209	1.00	22.32	A
ATOM	1792	OG	SER	A	252	31.266	19.536	32.953	1.00	23.58	A
ATOM	1793	C	SER	A	252	30.027	16.982	33.101	1.00	11.68	A
ATOM	1794	O	SER	A	252	28.862	17.077	33.479	1.00	12.18	A
ATOM	1795	N	SER	A	253	30.365	16.501	31.904	1.00	11.74	A
ATOM	1796	CA	SER	A	253	29.367	16.138	30.918	1.00	10.64	A
ATOM	1797	CB	SER	A	253	30.048	15.572	29.665	1.00	18.81	A
ATOM	1798	OG	SER	A	253	29.052	15.263	28.704	1.00	27.87	A
ATOM	1799	C	SER	A	253	28.294	15.139	31.382	1.00	15.51	A
ATOM	1800	O	SER	A	253	27.112	15.319	31.102	1.00	11.29	A
ATOM	1801	N	ALA	A	254	28.692	14.080	32.081	1.00	12.85	A
ATOM	1802	CA	ALA	A	254	27.700	13.084	32.525	1.00	14.75	A
ATOM	1803	CB	ALA	A	254	28.423	11.868	33.216	1.00	13.94	A
ATOM	1804	C	ALA	A	254	26.656	13.667	33.472	1.00	14.13	A
ATOM	1805	O	ALA	A	254	25.457	13.394	33.342	1.00	14.40	A
ATOM	1806	N	ALA	A	255	27.111	14.457	34.441	1.00	11.77	A
ATOM	1807	CA	ALA	A	255	26.205	15.070	35.401	1.00	13.30	A
ATOM	1808	CB	ALA	A	255	27.009	15.838	36.460	1.00	12.60	A
ATOM	1809	C	ALA	A	255	25.223	16.017	34.698	1.00	15.34	A
ATOM	1810	O	ALA	A	255	24.068	16.162	35.113	1.00	14.03	A
ATOM	1811	N	ILE	A	256	25.684	16.680	33.644	1.00	13.10	A
ATOM	1812	CA	ILE	A	256	24.812	17.599	32.920	1.00	14.09	A
ATOM	1813	CB	ILE	A	256	25.614	18.445	31.900	1.00	11.60	A
ATOM	1814	CG2	ILE	A	256	24.655	19.233	30.987	1.00	13.12	A
ATOM	1815	CG1	ILE	A	256	26.577	19.378	32.657	1.00	8.87	A
ATOM	1816	CD1	ILE	A	256	25.878	20.335	33.703	1.00	6.00	A
ATOM	1817	C	ILE	A	256	23.716	16.813	32.195	1.00	12.88	A
ATOM	1818	O	ILE	A	256	22.569	17.268	32.118	1.00	12.14	A
ATOM	1819	N	SER	A	257	24.069	15.639	31.678	1.00	12.01	A

FIGURE 5 (continued)

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ATOM   1820  CA  SER A 257      23.105  14.793  30.960  1.00 17.17      A
ATOM   1821  CB  SER A 257      23.773  13.529  30.418  1.00 20.37      A
ATOM   1822  OG  SER A 257      24.331  13.802  29.157  1.00 27.40      A
ATOM   1823  C   SER A 257      21.886  14.359  31.750  1.00 21.46      A
ATOM   1824  O   SER A 257      20.885  13.975  31.161  1.00 25.54      A
ATOM   1825  N   VAL A 258      21.949  14.417  33.070  1.00 18.37      A
ATOM   1826  CA  VAL A 258      20.803  13.983  33.849  1.00 22.61      A
ATOM   1827  CB  VAL A 258      21.230  13.049  34.996  1.00 23.45      A
ATOM   1828  CG1 VAL A 258      22.055  11.887  34.443  1.00 28.56      A
ATOM   1829  CG2 VAL A 258      22.004  13.831  36.041  1.00 29.85      A
ATOM   1830  C   VAL A 258      20.002  15.133  34.436  1.00 20.13      A
ATOM   1831  O   VAL A 258      19.056  14.907  35.193  1.00 19.13      A
ATOM   1832  N   VAL A 259      20.367  16.365  34.092  1.00 17.82      A
ATOM   1833  CA  VAL A 259      19.628  17.503  34.621  1.00 12.10      A
ATOM   1834  CB  VAL A 259      20.345  18.816  34.305  1.00  9.61      A
ATOM   1835  CG1 VAL A 259      19.448  20.009  34.655  1.00  9.95      A
ATOM   1836  CG2 VAL A 259      21.661  18.870  35.110  1.00  9.60      A
ATOM   1837  C   VAL A 259      18.257  17.470  33.946  1.00 10.93      A
ATOM   1838  O   VAL A 259      18.154  17.543  32.719  1.00 12.34      A
ATOM   1839  N   PRO A 260      17.185  17.372  34.746  1.00 12.49      A
ATOM   1840  CD  PRO A 260      17.178  17.349  36.227  1.00 15.54      A
ATOM   1841  CA  PRO A 260      15.823  17.321  34.204  1.00 12.14      A
ATOM   1842  CB  PRO A 260      14.992  16.881  35.415  1.00 18.68      A
ATOM   1843  CG  PRO A 260      15.705  17.553  36.556  1.00 20.90      A
ATOM   1844  C   PRO A 260      15.326  18.629  33.592  1.00 13.33      A
ATOM   1845  O   PRO A 260      15.719  19.704  34.025  1.00 11.59      A
ATOM   1846  N   LEU A 261      14.462  18.517  32.583  1.00 10.89      A
ATOM   1847  CA  LEU A 261      13.906  19.697  31.899  1.00 14.89      A
ATOM   1848  CB  LEU A 261      13.190  19.272  30.612  1.00 14.36      A
ATOM   1849  CG  LEU A 261      14.033  18.724  29.470  1.00 23.33      A
ATOM   1850  CD1 LEU A 261      13.132  18.115  28.388  1.00 17.91      A
ATOM   1851  CD2 LEU A 261      14.860  19.854  28.927  1.00 21.86      A
ATOM   1852  C   LEU A 261      12.868  20.354  32.782  1.00 14.14      A
ATOM   1853  O   LEU A 261      12.313  19.715  33.667  1.00 13.00      A
ATOM   1854  N   PRO A 262      12.598  21.646  32.570  1.00 16.56      A
ATOM   1855  CD  PRO A 262      13.154  22.620  31.613  1.00 18.10      A
ATOM   1856  CA  PRO A 262      11.576  22.260  33.421  1.00 16.86      A
ATOM   1857  CB  PRO A 262      11.753  23.752  33.137  1.00 16.37      A
ATOM   1858  CG  PRO A 262      12.147  23.764  31.698  1.00 22.55      A
ATOM   1859  C   PRO A 262      10.239  21.709  32.911  1.00 14.68      A
ATOM   1860  O   PRO A 262      10.136  21.357  31.743  1.00 14.32      A
ATOM   1861  N   ALA A 263       9.234  21.605  33.776  1.00 13.42      A
ATOM   1862  CA  ALA A 263       7.943  21.085  33.344  1.00 16.60      A
ATOM   1863  CB  ALA A 263       6.994  20.952  34.539  1.00 20.02      A
ATOM   1864  C   ALA A 263       7.343  22.011  32.292  1.00 16.04      A
ATOM   1865  O   ALA A 263       7.480  23.235  32.377  1.00 14.70      A
ATOM   1866  N   ALA A 264       6.664  21.426  31.309  1.00 15.42      A
ATOM   1867  CA  ALA A 264       6.050  22.206  30.239  1.00 12.74      A
ATOM   1868  CB  ALA A 264       5.248  21.287  29.308  1.00 19.88      A
ATOM   1869  C   ALA A 264       5.149  23.329  30.747  1.00 15.82      A
ATOM   1870  O   ALA A 264       5.247  24.461  30.264  1.00 17.34      A
ATOM   1871  N   ALA A 265       4.284  23.037  31.721  1.00 13.78      A
ATOM   1872  CA  ALA A 265       3.370  24.071  32.242  1.00 15.17      A
ATOM   1873  CB  ALA A 265       2.464  23.478  33.363  1.00 15.42      A
ATOM   1874  C   ALA A 265       4.057  25.333  32.772  1.00 15.06      A
ATOM   1875  O   ALA A 265       3.437  26.398  32.838  1.00 13.78      A
ATOM   1876  N   ASN A 266       5.320  25.212  33.175  1.00 13.85      A
ATOM   1877  CA  ASN A 266       6.057  26.343  33.733  1.00 12.11      A
ATOM   1878  CB  ASN A 266       6.987  25.895  34.873  1.00 13.94      A
ATOM   1879  CG  ASN A 266       6.253  25.239  36.028  1.00 23.25      A
ATOM   1880  OD1 ASN A 266       5.175  25.676  36.425  1.00 21.92      A
ATOM   1881  ND2 ASN A 266       6.856  24.200  36.592  1.00 19.37      A
ATOM   1882  C   ASN A 266       6.969  27.039  32.730  1.00 12.06      A
ATOM   1883  O   ASN A 266       7.662  27.965  33.100  1.00 13.88      A
ATOM   1884  N   ARG A 267       6.980  26.600  31.483  1.00 10.11      A
ATOM   1885  CA  ARG A 267       7.933  27.162  30.534  1.00 12.44      A
ATOM   1886  CB  ARG A 267       8.029  26.254  29.306  1.00 10.57      A
ATOM   1887  CG  ARG A 267       8.746  24.945  29.675  1.00 12.04      A
ATOM   1888  CD  ARG A 267       8.892  23.924  28.540  1.00  9.95      A
ATOM   1889  NE  ARG A 267       9.275  22.637  29.124  1.00 14.76      A
ATOM   1890  CZ  ARG A 267       9.533  21.530  28.439  1.00 14.94      A
ATOM   1891  NH1 ARG A 267       9.477  21.543  27.118  1.00 16.59      A
ATOM   1892  NH2 ARG A 267       9.782  20.387  29.084  1.00 12.17      A
ATOM   1893  C   ARG A 267       7.785  28.629  30.168  1.00 13.15      A
ATOM   1894  O   ARG A 267       8.658  29.207  29.505  1.00 13.32      A
ATOM   1895  N   GLY A 268       6.711  29.240  30.663  1.00 11.13      A
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FIGURE 5 (continued)

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ATOM   1896  CA  GLY A 268       6.491  30.653  30.439  1.00 13.33      A
ATOM   1897  C   GLY A 268       7.212  31.457  31.507  1.00 13.92      A
ATOM   1898  O   GLY A 268       7.219  32.679  31.452  1.00 14.39      A
ATOM   1899  N   ASP A 269       7.804  30.767  32.486  1.00 11.00      A
ATOM   1900  CA  ASP A 269       8.554  31.398  33.594  1.00 14.58      A
ATOM   1901  CB  ASP A 269       8.233  30.665  34.914  1.00 13.17      A
ATOM   1902  CG  ASP A 269       8.943  31.263  36.117  1.00 16.24      A
ATOM   1903  OD1 ASP A 269       9.767  32.179  35.944  1.00 17.40      A
ATOM   1904  OD2 ASP A 269       8.667  30.804  37.244  1.00 19.44      A
ATOM   1905  C   ASP A 269      10.064  31.290  33.303  1.00 10.72      A
ATOM   1906  O   ASP A 269      10.616  30.196  33.348  1.00 11.39      A
ATOM   1907  N   PRO A 270      10.742  32.417  33.010  1.00 11.52      A
ATOM   1908  CD  PRO A 270      10.217  33.796  32.924  1.00 11.48      A
ATOM   1909  CA  PRO A 270      12.184  32.394  32.709  1.00 10.44      A
ATOM   1910  CB  PRO A 270      12.523  33.867  32.491  1.00 11.04      A
ATOM   1911  CG  PRO A 270      11.225  34.465  32.026  1.00 13.30      A
ATOM   1912  C   PRO A 270      13.042  31.786  33.793  1.00 12.77      A
ATOM   1913  O   PRO A 270      14.097  31.243  33.521  1.00 10.58      A
ATOM   1914  N   ASN A 271      12.578  31.870  35.032  1.00 11.41      A
ATOM   1915  CA  ASN A 271      13.337  31.332  36.145  1.00 11.19      A
ATOM   1916  CB  ASN A 271      12.660  31.729  37.463  1.00 14.43      A
ATOM   1917  CG  ASN A 271      13.533  31.434  38.683  1.00 22.14      A
ATOM   1918  OD1 ASN A 271      14.734  31.726  38.696  1.00 16.89      A
ATOM   1919  ND2 ASN A 271      12.934  30.854  39.703  1.00 16.43      A
ATOM   1920  C   ASN A 271      13.545  29.816  36.090  1.00 16.21      A
ATOM   1921  O   ASN A 271      14.595  29.319  36.510  1.00 15.74      A
ATOM   1922  N   VAL A 272      12.574  29.065  35.575  1.00 10.21      A
ATOM   1923  CA  VAL A 272      12.749  27.613  35.547  1.00 11.32      A
ATOM   1924  CB  VAL A 272      11.378  26.849  35.440  1.00 13.38      A
ATOM   1925  CG1 VAL A 272      10.450  27.297  36.548  1.00 14.31      A
ATOM   1926  CG2 VAL A 272      10.759  27.074  34.078  1.00 11.03      A
ATOM   1927  C   VAL A 272      13.651  27.086  34.434  1.00 12.71      A
ATOM   1928  O   VAL A 272      14.028  25.907  34.459  1.00 10.89      A
ATOM   1929  N   TRP A 273      13.991  27.930  33.461  1.00  7.57      A
ATOM   1930  CA  TRP A 273      14.862  27.465  32.366  1.00  7.83      A
ATOM   1931  CB  TRP A 273      14.741  28.403  31.150  1.00  7.08      A
ATOM   1932  CG  TRP A 273      13.496  28.126  30.364  1.00 10.87      A
ATOM   1933  CD2 TRP A 273      13.359  27.161  29.325  1.00  9.80      A
ATOM   1934  CE2 TRP A 273      12.020  27.228  28.860  1.00  9.21      A
ATOM   1935  CE3 TRP A 273      14.241  26.240  28.732  1.00 10.74      A
ATOM   1936  CD1 TRP A 273      12.271  28.728  30.500  1.00  7.74      A
ATOM   1937  NE1 TRP A 273      11.375  28.192  29.590  1.00 12.31      A
ATOM   1938  CZ2 TRP A 273      11.545  26.412  27.838  1.00 10.97      A
ATOM   1939  CZ3 TRP A 273      13.764  25.428  27.700  1.00 10.91      A
ATOM   1940  CH2 TRP A 273      12.427  25.522  27.267  1.00 14.13      A
ATOM   1941  C   TRP A 273      16.338  27.311  32.755  1.00  9.26      A
ATOM   1942  O   TRP A 273      17.119  26.663  32.042  1.00  9.73      A
ATOM   1943  N   THR A 274      16.736  27.893  33.880  1.00  8.74      A
ATOM   1944  CA  THR A 274      18.123  27.769  34.281  1.00 11.71      A
ATOM   1945  CB  THR A 274      18.759  29.147  34.542  1.00 12.87      A
ATOM   1946  OG1 THR A 274      18.701  29.940  33.334  1.00 16.61      A
ATOM   1947  CG2 THR A 274      20.240  28.973  34.959  1.00  9.96      A
ATOM   1948  C   THR A 274      18.271  26.918  35.535  1.00 10.53      A
ATOM   1949  O   THR A 274      18.020  27.378  36.645  1.00 11.96      A
ATOM   1950  N   PRO A 275      18.673  25.657  35.373  1.00 11.80      A
ATOM   1951  CD  PRO A 275      18.885  24.916  34.119  1.00 13.30      A
ATOM   1952  CA  PRO A 275      18.841  24.782  36.543  1.00 11.14      A
ATOM   1953  CB  PRO A 275      19.180  23.424  35.921  1.00 15.21      A
ATOM   1954  CG  PRO A 275      18.600  23.506  34.528  1.00 15.39      A
ATOM   1955  C   PRO A 275      20.004  25.253  37.445  1.00 12.51      A
ATOM   1956  O   PRO A 275      21.007  25.723  36.950  1.00 12.15      A
ATOM   1957  N   VAL A 276      19.869  25.148  38.764  1.00  9.91      A
ATOM   1958  CA  VAL A 276      20.999  25.502  39.615  1.00 10.08      A
ATOM   1959  CB  VAL A 276      20.738  26.762  40.478  1.00 15.02      A
ATOM   1960  CG1 VAL A 276      20.534  27.990  39.568  1.00 16.57      A
ATOM   1961  CG2 VAL A 276      19.551  26.543  41.388  1.00 17.45      A
ATOM   1962  C   VAL A 276      21.236  24.293  40.500  1.00 12.75      A
ATOM   1963  O   VAL A 276      20.315  23.498  40.743  1.00  7.21      A
ATOM   1964  N   PHE A 277      22.472  24.149  40.969  1.00 13.38      A
ATOM   1965  CA  PHE A 277      22.848  23.017  41.798  1.00 12.43      A
ATOM   1966  CB  PHE A 277      24.231  22.491  41.373  1.00  8.49      A
ATOM   1967  CG  PHE A 277      24.229  21.828  40.017  1.00  8.19      A
ATOM   1968  CD1 PHE A 277      24.404  22.568  38.858  1.00  9.76      A
ATOM   1969  CD2 PHE A 277      23.999  20.461  39.909  1.00  8.15      A
ATOM   1970  CE1 PHE A 277      24.350  21.934  37.585  1.00 13.41      A
ATOM   1971  CE2 PHE A 277      23.938  19.825  38.654  1.00 13.62      A
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FIGURE 5 (continued)

ATOM	1972	CZ	PHE	A	277	24.114	20.555	37.499	1.00	8.74	A
ATOM	1973	C	PHE	A	277	22.848	23.377	43.272	1.00	12.19	A
ATOM	1974	O	PHE	A	277	22.892	24.553	43.634	1.00	12.80	A
ATOM	1975	N	GLY	A	278	22.781	22.356	44.116	1.00	12.01	A
ATOM	1976	CA	GLY	A	278	22.767	22.601	45.547	1.00	10.29	A
ATOM	1977	C	GLY	A	278	23.113	21.342	46.309	1.00	9.39	A
ATOM	1978	O	GLY	A	278	23.379	20.302	45.704	1.00	12.45	A
ATOM	1979	N	ALA	A	279	23.087	21.414	47.637	1.00	11.15	A
ATOM	1980	CA	ALA	A	279	23.436	20.246	48.450	1.00	14.32	A
ATOM	1981	CB	ALA	A	279	23.362	20.604	49.930	1.00	16.91	A
ATOM	1982	C	ALA	A	279	22.542	19.029	48.157	1.00	20.18	A
ATOM	1983	O	ALA	A	279	23.038	17.896	48.017	1.00	18.69	A
ATOM	1984	N	VAL	A	280	21.238	19.262	48.040	1.00	14.35	A
ATOM	1985	CA	VAL	A	280	20.302	18.176	47.796	1.00	19.81	A
ATOM	1986	CB	VAL	A	280	19.500	17.847	49.076	1.00	23.28	A
ATOM	1987	CG1	VAL	A	280	20.457	17.579	50.225	1.00	23.97	A
ATOM	1988	CG2	VAL	A	280	18.603	18.992	49.436	1.00	21.87	A
ATOM	1989	C	VAL	A	280	19.311	18.483	46.686	1.00	20.63	A
ATOM	1990	O	VAL	A	280	19.004	19.635	46.407	1.00	21.63	A
ATOM	1991	N	THR	A	281	18.812	17.436	46.055	1.00	20.03	A
ATOM	1992	CA	THR	A	281	17.838	17.599	44.982	1.00	19.32	A
ATOM	1993	CB	THR	A	281	17.732	16.327	44.136	1.00	20.70	A
ATOM	1994	OG1	THR	A	281	18.989	16.096	43.493	1.00	24.83	A
ATOM	1995	CG2	THR	A	281	16.637	16.473	43.062	1.00	20.23	A
ATOM	1996	C	THR	A	281	16.500	17.882	45.618	1.00	24.45	A
ATOM	1997	O	THR	A	281	16.073	17.159	46.520	1.00	22.56	A
ATOM	1998	N	GLY	A	282	15.854	18.949	45.164	1.00	22.37	A
ATOM	1999	CA	GLY	A	282	14.564	19.316	45.706	1.00	26.62	A
ATOM	2000	C	GLY	A	282	14.183	20.735	45.343	1.00	31.11	A
ATOM	2001	O	GLY	A	282	15.048	21.603	45.206	1.00	27.54	A
ATOM	2002	N	GLY	A	283	12.883	20.971	45.181	1.00	32.42	A
ATOM	2003	CA	GLY	A	283	12.401	22.301	44.855	1.00	30.56	A
ATOM	2004	C	GLY	A	283	13.051	22.950	43.654	1.00	30.47	A
ATOM	2005	O	GLY	A	283	13.307	24.154	43.666	1.00	33.57	A
ATOM	2006	N	GLY	A	284	13.298	22.171	42.607	1.00	26.82	A
ATOM	2007	CA	GLY	A	284	13.925	22.723	41.415	1.00	26.01	A
ATOM	2008	C	GLY	A	284	15.450	22.687	41.439	1.00	26.04	A
ATOM	2009	O	GLY	A	284	16.115	22.822	40.406	1.00	25.82	A
ATOM	2010	N	VAL	A	285	16.022	22.521	42.622	1.00	19.46	A
ATOM	2011	CA	VAL	A	285	17.467	22.461	42.722	1.00	19.85	A
ATOM	2012	CB	VAL	A	285	17.903	22.894	44.135	1.00	19.90	A
ATOM	2013	CG1	VAL	A	285	19.389	22.673	44.319	1.00	16.38	A
ATOM	2014	CG2	VAL	A	285	17.521	24.376	44.360	1.00	20.29	A
ATOM	2015	C	VAL	A	285	17.958	21.037	42.428	1.00	18.72	A
ATOM	2016	O	VAL	A	285	17.298	20.055	42.794	1.00	18.51	A
ATOM	2017	N	VAL	A	286	19.103	20.932	41.755	1.00	14.01	A
ATOM	2018	CA	VAL	A	286	19.706	19.645	41.423	1.00	16.59	A
ATOM	2019	CB	VAL	A	286	20.200	19.625	39.964	1.00	14.25	A
ATOM	2020	CG1	VAL	A	286	20.729	18.254	39.623	1.00	19.16	A
ATOM	2021	CG2	VAL	A	286	19.068	19.997	39.036	1.00	20.67	A
ATOM	2022	C	VAL	A	286	20.917	19.416	42.325	1.00	17.27	A
ATOM	2023	O	VAL	A	286	21.757	20.302	42.484	1.00	13.49	A
ATOM	2024	N	ALA	A	287	21.041	18.229	42.896	1.00	15.01	A
ATOM	2025	CA	ALA	A	287	22.188	18.000	43.778	1.00	17.78	A
ATOM	2026	CB	ALA	A	287	22.039	16.649	44.527	1.00	16.62	A
ATOM	2027	C	ALA	A	287	23.483	18.011	42.999	1.00	12.88	A
ATOM	2028	O	ALA	A	287	23.520	17.533	41.854	1.00	10.29	A
ATOM	2029	N	TYR	A	288	24.538	18.576	43.603	1.00	11.08	A
ATOM	2030	CA	TYR	A	288	25.867	18.554	42.979	1.00	8.88	A
ATOM	2031	CB	TYR	A	288	26.877	19.297	43.862	1.00	12.41	A
ATOM	2032	CG	TYR	A	288	26.891	20.803	43.649	1.00	9.59	A
ATOM	2033	CD1	TYR	A	288	26.329	21.677	44.589	1.00	8.82	A
ATOM	2034	CE1	TYR	A	288	26.320	23.086	44.382	1.00	10.11	A
ATOM	2035	CD2	TYR	A	288	27.463	21.356	42.491	1.00	10.87	A
ATOM	2036	CE2	TYR	A	288	27.464	22.744	42.275	1.00	6.63	A
ATOM	2037	CZ	TYR	A	288	26.883	23.601	43.223	1.00	7.60	A
ATOM	2038	OH	TYR	A	288	26.842	24.960	42.960	1.00	7.46	A
ATOM	2039	C	TYR	A	288	26.263	17.061	42.851	1.00	12.67	A
ATOM	2040	O	TYR	A	288	25.989	16.265	43.750	1.00	10.55	A
ATOM	2041	N	PRO	A	289	26.929	16.672	41.746	1.00	12.61	A
ATOM	2042	CD	PRO	A	289	27.338	17.560	40.625	1.00	13.50	A
ATOM	2043	CA	PRO	A	289	27.346	15.280	41.495	1.00	12.99	A
ATOM	2044	CB	PRO	A	289	27.863	15.328	40.051	1.00	15.51	A
ATOM	2045	CG	PRO	A	289	28.424	16.734	39.920	1.00	10.53	A
ATOM	2046	C	PRO	A	289	28.366	14.644	42.439	1.00	17.46	A
ATOM	2047	O	PRO	A	289	29.342	15.282	42.835	1.00	15.29	A

FIGURE 5 (continued)

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ATOM   2048  N   ASP A 290      28.149  13.372  42.782  1.00 16.57      A
ATOM   2049  CA  ASP A 290      29.092  12.691  43.652  1.00 20.97      A
ATOM   2050  CB  ASP A 290      28.360  11.751  44.628  1.00 25.52      A
ATOM   2051  CG  ASP A 290      27.489  10.723  43.929  1.00 34.64      A
ATOM   2052  OD1 ASP A 290      26.599  10.146  44.604  1.00 38.07      A
ATOM   2053  OD2 ASP A 290      27.693  10.478  42.716  1.00 39.24      A
ATOM   2054  C   ASP A 290      30.154  11.952  42.824  1.00 21.23      A
ATOM   2055  O   ASP A 290      30.990  11.231  43.362  1.00 21.11      A
ATOM   2056  N   SER A 291      30.136  12.152  41.509  1.00 14.24      A
ATOM   2057  CA  SER A 291      31.143  11.538  40.645  1.00 16.28      A
ATOM   2058  CB  SER A 291      30.592  10.290  39.925  1.00 16.14      A
ATOM   2059  OG  SER A 291      29.549  10.625  39.031  1.00 22.17      A
ATOM   2060  C   SER A 291      31.555  12.609  39.643  1.00 14.75      A
ATOM   2061  O   SER A 291      30.842  13.605  39.493  1.00 13.50      A
ATOM   2062  N   GLY A 292      32.692  12.419  38.971  1.00 13.79      A
ATOM   2063  CA  GLY A 292      33.181  13.423  38.019  1.00 14.60      A
ATOM   2064  C   GLY A 292      33.713  14.688  38.707  1.00 11.05      A
ATOM   2065  O   GLY A 292      33.964  14.669  39.909  1.00 14.10      A
ATOM   2066  N   TYR A 293      33.904  15.779  37.955  1.00 10.56      A
ATOM   2067  CA  TYR A 293      34.380  17.049  38.529  1.00  9.23      A
ATOM   2068  CB  TYR A 293      34.838  18.014  37.443  1.00 10.30      A
ATOM   2069  CG  TYR A 293      35.535  19.229  38.012  1.00 11.13      A
ATOM   2070  CD1 TYR A 293      36.829  19.138  38.526  1.00  7.85      A
ATOM   2071  CE1 TYR A 293      37.482  20.269  39.049  1.00  8.64      A
ATOM   2072  CD2 TYR A 293      34.900  20.470  38.038  1.00 11.82      A
ATOM   2073  CE2 TYR A 293      35.547  21.601  38.554  1.00 11.43      A
ATOM   2074  CZ  TYR A 293      36.839  21.488  39.052  1.00  8.40      A
ATOM   2075  OH  TYR A 293      37.488  22.625  39.496  1.00  8.49      A
ATOM   2076  C   TYR A 293      33.183  17.645  39.252  1.00  9.71      A
ATOM   2077  O   TYR A 293      32.142  17.834  38.657  1.00 12.02      A
ATOM   2078  N   PRO A 294      33.347  18.021  40.531  1.00 12.25      A
ATOM   2079  CD  PRO A 294      34.575  17.923  41.350  1.00 12.44      A
ATOM   2080  CA  PRO A 294      32.229  18.559  41.302  1.00 14.24      A
ATOM   2081  CB  PRO A 294      32.644  18.263  42.748  1.00 12.15      A
ATOM   2082  CG  PRO A 294      34.132  18.499  42.712  1.00 15.49      A
ATOM   2083  C   PRO A 294      31.682  19.963  41.133  1.00 13.85      A
ATOM   2084  O   PRO A 294      30.511  20.171  41.429  1.00 11.37      A
ATOM   2085  N   ILE A 295      32.476  20.907  40.628  1.00 10.88      A
ATOM   2086  CA  ILE A 295      31.990  22.280  40.510  1.00  9.12      A
ATOM   2087  CB  ILE A 295      33.062  23.301  40.934  1.00 10.07      A
ATOM   2088  CG2 ILE A 295      32.375  24.666  41.232  1.00 10.52      A
ATOM   2089  CG1 ILE A 295      33.733  22.853  42.236  1.00 12.06      A
ATOM   2090  CD1 ILE A 295      34.841  23.801  42.703  1.00 12.46      A
ATOM   2091  C   ILE A 295      31.564  22.574  39.087  1.00 12.87      A
ATOM   2092  O   ILE A 295      32.397  22.660  38.182  1.00 10.57      A
ATOM   2093  N   LEU A 296      30.257  22.743  38.902  1.00 10.82      A
ATOM   2094  CA  LEU A 296      29.703  22.951  37.570  1.00  8.61      A
ATOM   2095  CB  LEU A 296      29.370  21.578  36.949  1.00  9.63      A
ATOM   2096  CG  LEU A 296      28.032  20.884  37.276  1.00  7.75      A
ATOM   2097  CD1 LEU A 296      27.971  19.517  36.572  1.00 11.60      A
ATOM   2098  CD2 LEU A 296      27.852  20.690  38.784  1.00 10.20      A
ATOM   2099  C   LEU A 296      28.461  23.828  37.612  1.00  7.00      A
ATOM   2100  O   LEU A 296      27.945  24.137  38.690  1.00 11.47      A
ATOM   2101  N   GLY A 297      27.988  24.236  36.436  1.00  8.98      A
ATOM   2102  CA  GLY A 297      26.812  25.093  36.353  1.00  8.75      A
ATOM   2103  C   GLY A 297      26.503  25.452  34.906  1.00 14.03      A
ATOM   2104  O   GLY A 297      27.128  24.917  33.979  1.00  9.23      A
ATOM   2105  N   PHE A 298      25.544  26.353  34.700  1.00  7.40      A
ATOM   2106  CA  PHE A 298      25.177  26.758  33.350  1.00  7.84      A
ATOM   2107  CB  PHE A 298      23.666  26.550  33.105  1.00  6.30      A
ATOM   2108  CG  PHE A 298      23.249  25.102  32.984  1.00 10.10      A
ATOM   2109  CD1 PHE A 298      22.775  24.398  34.094  1.00  9.62      A
ATOM   2110  CD2 PHE A 298      23.356  24.444  31.763  1.00  8.37      A
ATOM   2111  CE1 PHE A 298      22.414  23.038  33.988  1.00 13.84      A
ATOM   2112  CE2 PHE A 298      23.005  23.087  31.630  1.00  7.19      A
ATOM   2113  CZ  PHE A 298      22.533  22.379  32.747  1.00 12.00      A
ATOM   2114  C   PHE A 298      25.469  28.235  33.145  1.00 10.22      A
ATOM   2115  O   PHE A 298      25.431  29.007  34.114  1.00  9.27      A
ATOM   2116  N   THR A 299      25.811  28.615  31.910  1.00  7.04      A
ATOM   2117  CA  THR A 299      25.961  30.029  31.594  1.00  8.99      A
ATOM   2118  CB  THR A 299      27.319  30.414  30.975  1.00 12.65      A
ATOM   2119  OG1 THR A 299      27.293  31.818  30.682  1.00 10.67      A
ATOM   2120  CG2 THR A 299      27.616  29.617  29.740  1.00 12.18      A
ATOM   2121  C   THR A 299      24.798  30.220  30.616  1.00  8.12      A
ATOM   2122  O   THR A 299      24.482  29.325  29.810  1.00  9.48      A
ATOM   2123  N   ASP A 300      24.173  31.392  30.677  1.00  8.49      A
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FIGURE 5 (continued)

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ATOM   2124  CA  ASP A 300      22.930  31.636  29.950  1.00 10.66      A
ATOM   2125  CB  ASP A 300      21.849  31.816  31.023  1.00  8.23      A
ATOM   2126  CG  ASP A 300      22.055  30.877  32.193  1.00 14.11      A
ATOM   2127  OD1 ASP A 300      22.141  29.660  31.928  1.00  8.23      A
ATOM   2128  OD2 ASP A 300      22.149  31.341  33.373  1.00 15.65      A
ATOM   2129  C   ASP A 300      22.828  32.790  28.975  1.00 10.65      A
ATOM   2130  O   ASP A 300      23.690  33.669  28.931  1.00  8.49      A
ATOM   2131  N   LEU A 301      21.740  32.765  28.202  1.00  8.77      A
ATOM   2132  CA  LEU A 301      21.407  33.819  27.246  1.00 10.49      A
ATOM   2133  CB  LEU A 301      21.121  33.226  25.850  1.00 10.57      A
ATOM   2134  CG  LEU A 301      22.189  32.371  25.157  1.00 17.61      A
ATOM   2135  CD1 LEU A 301      21.699  31.951  23.775  1.00 16.46      A
ATOM   2136  CD2 LEU A 301      23.456  33.151  25.057  1.00 12.96      A
ATOM   2137  C   LEU A 301      20.128  34.533  27.689  1.00  7.85      A
ATOM   2138  O   LEU A 301      19.179  33.889  28.127  1.00  7.63      A
ATOM   2139  N   ILE A 302      20.101  35.855  27.564  1.00  8.91      A
ATOM   2140  CA  ILE A 302      18.897  36.614  27.879  1.00  7.82      A
ATOM   2141  CB  ILE A 302      19.146  37.648  29.000  1.00 10.36      A
ATOM   2142  CG2 ILE A 302      17.848  38.429  29.261  1.00 12.51      A
ATOM   2143  CG1 ILE A 302      19.588  36.918  30.287  1.00  8.81      A
ATOM   2144  CD1 ILE A 302      20.089  37.867  31.411  1.00  7.82      A
ATOM   2145  C   ILE A 302      18.517  37.368  26.602  1.00  9.48      A
ATOM   2146  O   ILE A 302      19.320  38.158  26.096  1.00  8.44      A
ATOM   2147  N   PHE A 303      17.311  37.120  26.081  1.00  8.80      A
ATOM   2148  CA  PHE A 303      16.843  37.786  24.854  1.00  8.37      A
ATOM   2149  CB  PHE A 303      16.751  36.821  23.651  1.00  7.07      A
ATOM   2150  CG  PHE A 303      18.054  36.583  22.944  1.00  8.30      A
ATOM   2151  CD1 PHE A 303      19.027  35.770  23.500  1.00  8.48      A
ATOM   2152  CD2 PHE A 303      18.316  37.205  21.725  1.00  7.08      A
ATOM   2153  CE1 PHE A 303      20.265  35.582  22.851  1.00  7.30      A
ATOM   2154  CE2 PHE A 303      19.559  37.023  21.065  1.00  9.28      A
ATOM   2155  CZ  PHE A 303      20.528  36.210  21.637  1.00 11.64      A
ATOM   2156  C   PHE A 303      15.437  38.305  25.032  1.00  9.03      A
ATOM   2157  O   PHE A 303      14.797  38.052  26.031  1.00  9.30      A
ATOM   2158  N   SER A 304      14.947  39.002  24.014  1.00  7.56      A
ATOM   2159  CA  SER A 304      13.566  39.465  24.044  1.00  9.72      A
ATOM   2160  CB  SER A 304      13.470  40.870  23.444  1.00 11.08      A
ATOM   2161  OG  SER A 304      12.117  41.291  23.498  1.00 10.08      A
ATOM   2162  C   SER A 304      12.707  38.530  23.170  1.00  6.80      A
ATOM   2163  O   SER A 304      13.198  38.018  22.162  1.00 10.90      A
ATOM   2164  N   GLU A 305      11.451  38.293  23.534  1.00  8.14      A
ATOM   2165  CA  GLU A 305      10.605  37.482  22.655  1.00 11.11      A
ATOM   2166  CB  GLU A 305       9.268  37.125  23.316  1.00 10.66      A
ATOM   2167  CG  GLU A 305       8.447  36.161  22.439  1.00 11.71      A
ATOM   2168  CD  GLU A 305       7.073  35.820  22.985  1.00 12.77      A
ATOM   2169  OE1 GLU A 305       6.767  36.154  24.147  1.00 14.12      A
ATOM   2170  OE2 GLU A 305       6.288  35.192  22.228  1.00 16.70      A
ATOM   2171  C   GLU A 305      10.305  38.329  21.399  1.00 15.34      A
ATOM   2172  O   GLU A 305      10.154  37.800  20.283  1.00 10.74      A
ATOM   2173  N   CYS A 306      10.239  39.649  21.574  1.00 11.86      A
ATOM   2174  CA  CYS A 306       9.889  40.534  20.450  1.00 12.96      A
ATOM   2175  C   CYS A 306      10.859  41.666  20.140  1.00 14.14      A
ATOM   2176  O   CYS A 306      11.434  42.270  21.046  1.00 11.98      A
ATOM   2177  CB  CYS A 306       8.531  41.185  20.726  1.00 11.40      A
ATOM   2178  SG  CYS A 306       7.188  40.111  21.313  1.00 15.63      A
ATOM   2179  N   TYR A 307      11.017  41.956  18.854  1.00 12.82      A
ATOM   2180  CA  TYR A 307      11.872  43.060  18.397  1.00 10.85      A
ATOM   2181  CB  TYR A 307      13.143  42.533  17.712  1.00  8.88      A
ATOM   2182  CG  TYR A 307      14.066  41.850  18.703  1.00 13.96      A
ATOM   2183  CD1 TYR A 307      13.902  40.499  19.020  1.00 13.44      A
ATOM   2184  CE1 TYR A 307      14.683  39.882  20.020  1.00 13.43      A
ATOM   2185  CD2 TYR A 307      15.035  42.579  19.401  1.00 11.32      A
ATOM   2186  CE2 TYR A 307      15.821  41.972  20.410  1.00 11.99      A
ATOM   2187  CZ  TYR A 307      15.637  40.625  20.712  1.00 12.10      A
ATOM   2188  OH  TYR A 307      16.379  40.019  21.724  1.00 12.32      A
ATOM   2189  C   TYR A 307      11.056  43.908  17.424  1.00 13.04      A
ATOM   2190  O   TYR A 307      10.318  43.370  16.588  1.00 11.71      A
ATOM   2191  N   ALA A 308      11.161  45.229  17.546  1.00 13.47      A
ATOM   2192  CA  ALA A 308      10.420  46.123  16.660  1.00 19.16      A
ATOM   2193  CB  ALA A 308      10.623  47.583  17.116  1.00 19.39      A
ATOM   2194  C   ALA A 308      10.827  45.960  15.176  1.00 16.58      A
ATOM   2195  O   ALA A 308       9.990  46.011  14.290  1.00 15.94      A
ATOM   2196  N   ASN A 309      12.109  45.752  14.919  1.00 16.56      A
ATOM   2197  CA  ASN A 309      12.621  45.602  13.565  1.00 15.71      A
ATOM   2198  CB  ASN A 309      14.084  46.052  13.558  1.00 11.74      A
ATOM   2199  CG  ASN A 309      14.704  46.002  12.183  1.00 20.62      A
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FIGURE 5 (continued)

ATOM	2200	OD1	ASN	A	309	15.130	44.946	11.713	1.00	17.26	A
ATOM	2201	ND2	ASN	A	309	14.741	47.153	11.517	1.00	13.84	A
ATOM	2202	C	ASN	A	309	12.493	44.142	13.066	1.00	16.39	A
ATOM	2203	O	ASN	A	309	13.031	43.221	13.678	1.00	11.54	A
ATOM	2204	N	ALA	A	310	11.806	43.942	11.941	1.00	12.69	A
ATOM	2205	CA	ALA	A	310	11.583	42.584	11.430	1.00	16.06	A
ATOM	2206	CB	ALA	A	310	10.564	42.618	10.281	1.00	16.44	A
ATOM	2207	C	ALA	A	310	12.836	41.828	10.997	1.00	14.76	A
ATOM	2208	O	ALA	A	310	12.907	40.599	11.128	1.00	15.90	A
ATOM	2209	N	THR	A	311	13.827	42.546	10.485	1.00	13.61	A
ATOM	2210	CA	THR	A	311	15.074	41.922	10.069	1.00	14.28	A
ATOM	2211	CB	THR	A	311	15.949	42.927	9.314	1.00	15.47	A
ATOM	2212	OG1	THR	A	311	15.284	43.307	8.097	1.00	18.10	A
ATOM	2213	CG2	THR	A	311	17.291	42.322	8.977	1.00	16.40	A
ATOM	2214	C	THR	A	311	15.813	41.407	11.324	1.00	15.00	A
ATOM	2215	O	THR	A	311	16.371	40.313	11.318	1.00	12.29	A
ATOM	2216	N	GLN	A	312	15.798	42.180	12.409	1.00	13.08	A
ATOM	2217	CA	GLN	A	312	16.477	41.717	13.623	1.00	12.35	A
ATOM	2218	CB	GLN	A	312	16.545	42.827	14.682	1.00	10.08	A
ATOM	2219	CG	GLN	A	312	17.501	43.960	14.273	1.00	7.89	A
ATOM	2220	CD	GLN	A	312	17.696	44.997	15.377	1.00	13.93	A
ATOM	2221	OE1	GLN	A	312	16.897	45.087	16.311	1.00	14.28	A
ATOM	2222	NE2	GLN	A	312	18.743	45.799	15.255	1.00	16.18	A
ATOM	2223	C	GLN	A	312	15.768	40.486	14.191	1.00	11.19	A
ATOM	2224	O	GLN	A	312	16.418	39.537	14.639	1.00	14.09	A
ATOM	2225	N	THR	A	313	14.439	40.507	14.189	1.00	9.72	A
ATOM	2226	CA	THR	A	313	13.670	39.363	14.685	1.00	8.88	A
ATOM	2227	CB	THR	A	313	12.149	39.541	14.449	1.00	13.95	A
ATOM	2228	OG1	THR	A	313	11.660	40.660	15.197	1.00	14.46	A
ATOM	2229	CG2	THR	A	313	11.398	38.288	14.882	1.00	12.76	A
ATOM	2230	C	THR	A	313	14.108	38.096	13.935	1.00	10.80	A
ATOM	2231	O	THR	A	313	14.318	37.042	14.538	1.00	11.41	A
ATOM	2232	N	GLY	A	314	14.218	38.204	12.615	1.00	11.55	A
ATOM	2233	CA	GLY	A	314	14.628	37.067	11.810	1.00	12.96	A
ATOM	2234	C	GLY	A	314	16.060	36.638	12.090	1.00	10.31	A
ATOM	2235	O	GLY	A	314	16.370	35.439	12.111	1.00	11.80	A
ATOM	2236	N	GLN	A	315	16.952	37.603	12.291	1.00	10.00	A
ATOM	2237	CA	GLN	A	315	18.360	37.280	12.586	1.00	10.98	A
ATOM	2238	CB	GLN	A	315	19.219	38.542	12.512	1.00	12.34	A
ATOM	2239	CG	GLN	A	315	19.286	39.069	11.071	1.00	13.86	A
ATOM	2240	CD	GLN	A	315	20.014	40.385	10.958	1.00	16.05	A
ATOM	2241	OE1	GLN	A	315	19.868	41.254	11.818	1.00	15.65	A
ATOM	2242	NE2	GLN	A	315	20.787	40.552	9.880	1.00	15.34	A
ATOM	2243	C	GLN	A	315	18.518	36.613	13.952	1.00	11.33	A
ATOM	2244	O	GLN	A	315	19.385	35.743	14.136	1.00	12.86	A
ATOM	2245	N	VAL	A	316	17.677	37.006	14.909	1.00	11.99	A
ATOM	2246	CA	VAL	A	316	17.719	36.389	16.238	1.00	11.29	A
ATOM	2247	CB	VAL	A	316	16.803	37.131	17.251	1.00	12.97	A
ATOM	2248	CG1	VAL	A	316	16.658	36.292	18.541	1.00	12.95	A
ATOM	2249	CG2	VAL	A	316	17.401	38.493	17.602	1.00	11.75	A
ATOM	2250	C	VAL	A	316	17.232	34.929	16.092	1.00	13.11	A
ATOM	2251	O	VAL	A	316	17.813	33.996	16.667	1.00	12.64	A
ATOM	2252	N	ARG	A	317	16.164	34.723	15.327	1.00	9.04	A
ATOM	2253	CA	ARG	A	317	15.672	33.364	15.115	1.00	12.87	A
ATOM	2254	CB	ARG	A	317	14.348	33.372	14.303	1.00	14.06	A
ATOM	2255	CG	ARG	A	317	13.148	33.951	15.076	1.00	13.07	A
ATOM	2256	CD	ARG	A	317	11.823	33.964	14.243	1.00	14.93	A
ATOM	2257	NE	ARG	A	317	11.520	32.611	13.765	1.00	14.57	A
ATOM	2258	CZ	ARG	A	317	10.894	31.677	14.480	1.00	10.03	A
ATOM	2259	NH1	ARG	A	317	10.470	31.934	15.704	1.00	9.62	A
ATOM	2260	NH2	ARG	A	317	10.730	30.461	13.983	1.00	13.56	A
ATOM	2261	C	ARG	A	317	16.730	32.491	14.434	1.00	12.01	A
ATOM	2262	O	ARG	A	317	16.879	31.320	14.783	1.00	12.09	A
ATOM	2263	N	ASN	A	318	17.462	33.033	13.464	1.00	11.68	A
ATOM	2264	CA	ASN	A	318	18.503	32.246	12.796	1.00	13.18	A
ATOM	2265	CB	ASN	A	318	19.123	33.028	11.629	1.00	11.52	A
ATOM	2266	CG	ASN	A	318	18.145	33.249	10.500	1.00	15.15	A
ATOM	2267	OD1	ASN	A	318	17.140	32.557	10.402	1.00	13.70	A
ATOM	2268	ND2	ASN	A	318	18.438	34.211	9.638	1.00	17.31	A
ATOM	2269	C	ASN	A	318	19.613	31.841	13.771	1.00	12.19	A
ATOM	2270	O	ASN	A	318	20.207	30.753	13.658	1.00	9.01	A
ATOM	2271	N	PHE	A	319	19.904	32.715	14.733	1.00	10.68	A
ATOM	2272	CA	PHE	A	319	20.936	32.376	15.707	1.00	9.90	A
ATOM	2273	CB	PHE	A	319	21.274	33.577	16.584	1.00	7.66	A
ATOM	2274	CG	PHE	A	319	22.105	33.212	17.794	1.00	10.09	A
ATOM	2275	CD1	PHE	A	319	23.351	32.644	17.631	1.00	6.01	A

FIGURE 5 (continued)

ATOM	2276	CD2	PHE	A	319	21.593	33.356	19.087	1.00	10.54	A
ATOM	2277	CE1	PHE	A	319	24.102	32.203	18.738	1.00	12.72	A
ATOM	2278	CE2	PHE	A	319	22.333	32.919	20.212	1.00	15.07	A
ATOM	2279	CZ	PHE	A	319	23.589	32.338	20.027	1.00	12.59	A
ATOM	2280	C	PHE	A	319	20.449	31.222	16.587	1.00	10.27	A
ATOM	2281	O	PHE	A	319	21.203	30.282	16.868	1.00	12.47	A
ATOM	2282	N	PHE	A	320	19.188	31.275	17.013	1.00	10.21	A
ATOM	2283	CA	PHE	A	320	18.649	30.213	17.860	1.00	10.79	A
ATOM	2284	CB	PHE	A	320	17.247	30.581	18.363	1.00	9.11	A
ATOM	2285	CG	PHE	A	320	17.246	31.285	19.698	1.00	7.96	A
ATOM	2286	CD1	PHE	A	320	16.762	30.642	20.833	1.00	9.52	A
ATOM	2287	CD2	PHE	A	320	17.723	32.583	19.822	1.00	12.60	A
ATOM	2288	CE1	PHE	A	320	16.750	31.282	22.082	1.00	6.69	A
ATOM	2289	CE2	PHE	A	320	17.712	33.244	21.075	1.00	9.45	A
ATOM	2290	CZ	PHE	A	320	17.220	32.579	22.209	1.00	8.89	A
ATOM	2291	C	PHE	A	320	18.598	28.912	17.089	1.00	7.76	A
ATOM	2292	O	PHE	A	320	18.856	27.838	17.634	1.00	9.90	A
ATOM	2293	N	THR	A	321	18.274	29.013	15.801	1.00	8.04	A
ATOM	2294	CA	THR	A	321	18.199	27.829	14.950	1.00	6.79	A
ATOM	2295	CB	THR	A	321	17.687	28.224	13.551	1.00	7.01	A
ATOM	2296	OG1	THR	A	321	16.334	28.695	13.691	1.00	11.25	A
ATOM	2297	CG2	THR	A	321	17.731	27.032	12.573	1.00	9.32	A
ATOM	2298	C	THR	A	321	19.535	27.128	14.872	1.00	11.09	A
ATOM	2299	O	THR	A	321	19.594	25.896	14.823	1.00	10.46	A
ATOM	2300	N	LYS	A	322	20.617	27.904	14.873	1.00	8.41	A
ATOM	2301	CA	LYS	A	322	21.950	27.319	14.849	1.00	8.00	A
ATOM	2302	CB	LYS	A	322	22.970	28.329	14.299	1.00	6.38	A
ATOM	2303	CG	LYS	A	322	24.410	27.805	14.359	1.00	10.15	A
ATOM	2304	CD	LYS	A	322	25.396	28.712	13.615	1.00	8.08	A
ATOM	2305	CE	LYS	A	322	26.665	27.922	13.317	1.00	11.78	A
ATOM	2306	NZ	LYS	A	322	27.577	28.702	12.437	1.00	18.79	A
ATOM	2307	C	LYS	A	322	22.415	26.857	16.242	1.00	9.52	A
ATOM	2308	O	LYS	A	322	22.864	25.711	16.425	1.00	9.02	A
ATOM	2309	N	HIS	A	323	22.289	27.735	17.231	1.00	10.06	A
ATOM	2310	CA	HIS	A	323	22.793	27.420	18.569	1.00	9.00	A
ATOM	2311	CB	HIS	A	323	22.710	28.677	19.469	1.00	7.78	A
ATOM	2312	CG	HIS	A	323	23.655	28.657	20.637	1.00	9.56	A
ATOM	2313	CD2	HIS	A	323	23.426	28.762	21.970	1.00	9.53	A
ATOM	2314	ND1	HIS	A	323	25.028	28.560	20.494	1.00	7.88	A
ATOM	2315	CE1	HIS	A	323	25.602	28.615	21.683	1.00	9.47	A
ATOM	2316	NE2	HIS	A	323	24.653	28.736	22.598	1.00	12.97	A
ATOM	2317	C	HIS	A	323	22.082	26.230	19.222	1.00	9.52	A
ATOM	2318	O	HIS	A	323	22.687	25.507	20.019	1.00	8.65	A
ATOM	2319	N	TYR	A	324	20.808	26.034	18.877	1.00	9.61	A
ATOM	2320	CA	TYR	A	324	20.024	24.911	19.427	1.00	10.38	A
ATOM	2321	CB	TYR	A	324	18.767	25.434	20.149	1.00	6.95	A
ATOM	2322	CG	TYR	A	324	19.137	26.376	21.277	1.00	7.33	A
ATOM	2323	CD1	TYR	A	324	19.195	27.752	21.072	1.00	5.99	A
ATOM	2324	CE1	TYR	A	324	19.656	28.618	22.097	1.00	8.99	A
ATOM	2325	CD2	TYR	A	324	19.533	25.882	22.513	1.00	7.61	A
ATOM	2326	CE2	TYR	A	324	19.994	26.731	23.525	1.00	5.98	A
ATOM	2327	CZ	TYR	A	324	20.052	28.094	23.303	1.00	7.54	A
ATOM	2328	OH	TYR	A	324	20.547	28.926	24.294	1.00	7.56	A
ATOM	2329	C	TYR	A	324	19.627	23.893	18.338	1.00	7.02	A
ATOM	2330	O	TYR	A	324	18.677	23.118	18.498	1.00	10.94	A
ATOM	2331	N	GLY	A	325	20.387	23.868	17.254	1.00	7.94	A
ATOM	2332	CA	GLY	A	325	20.064	22.938	16.181	1.00	7.51	A
ATOM	2333	C	GLY	A	325	20.514	21.493	16.386	1.00	12.01	A
ATOM	2334	O	GLY	A	325	21.492	21.227	17.097	1.00	10.59	A
ATOM	2335	N	THR	A	326	19.788	20.564	15.752	1.00	8.75	A
ATOM	2336	CA	THR	A	326	20.113	19.132	15.790	1.00	10.25	A
ATOM	2337	CB	THR	A	326	19.005	18.311	15.135	1.00	9.46	A
ATOM	2338	OG1	THR	A	326	17.759	18.707	15.708	1.00	10.73	A
ATOM	2339	CG2	THR	A	326	19.212	16.788	15.369	1.00	7.67	A
ATOM	2340	C	THR	A	326	21.432	18.937	15.038	1.00	9.78	A
ATOM	2341	O	THR	A	326	22.278	18.131	15.452	1.00	10.90	A
ATOM	2342	N	SER	A	327	21.614	19.688	13.953	1.00	12.37	A
ATOM	2343	CA	SER	A	327	22.858	19.666	13.176	1.00	11.58	A
ATOM	2344	CB	SER	A	327	22.743	18.752	11.935	1.00	14.65	A
ATOM	2345	OG	SER	A	327	21.725	19.192	11.051	1.00	10.13	A
ATOM	2346	C	SER	A	327	23.158	21.118	12.764	1.00	10.87	A
ATOM	2347	O	SER	A	327	22.419	22.031	13.149	1.00	9.05	A
ATOM	2348	N	ALA	A	328	24.228	21.331	12.000	1.00	11.22	A
ATOM	2349	CA	ALA	A	328	24.637	22.690	11.567	1.00	10.30	A
ATOM	2350	CB	ALA	A	328	23.682	23.234	10.518	1.00	12.01	A
ATOM	2351	C	ALA	A	328	24.602	23.592	12.790	1.00	11.88	A

FIGURE 5 (continued)

ATOM	2352	O	ALA	A	328	24.046	24.674	12.742	1.00	13.69	A
ATOM	2353	N	ASN	A	329	25.197	23.140	13.887	1.00	11.26	A
ATOM	2354	CA	ASN	A	329	25.150	23.910	15.123	1.00	10.51	A
ATOM	2355	CB	ASN	A	329	24.422	23.083	16.205	1.00	8.81	A
ATOM	2356	CG	ASN	A	329	25.132	21.771	16.536	1.00	9.32	A
ATOM	2357	OD1	ASN	A	329	26.352	21.717	16.573	1.00	11.49	A
ATOM	2358	ND2	ASN	A	329	24.360	20.714	16.792	1.00	10.75	A
ATOM	2359	C	ASN	A	329	26.526	24.402	15.604	1.00	12.21	A
ATOM	2360	O	ASN	A	329	27.515	24.381	14.849	1.00	9.35	A
ATOM	2361	N	ASP	A	330	26.586	24.863	16.851	1.00	10.38	A
ATOM	2362	CA	ASP	A	330	27.837	25.386	17.412	1.00	9.41	A
ATOM	2363	CB	ASP	A	330	27.575	26.677	18.208	1.00	10.91	A
ATOM	2364	CG	ASP	A	330	27.239	27.852	17.331	1.00	13.71	A
ATOM	2365	OD1	ASP	A	330	26.333	28.653	17.720	1.00	14.93	A
ATOM	2366	OD2	ASP	A	330	27.880	27.981	16.261	1.00	10.16	A
ATOM	2367	C	ASP	A	330	28.536	24.416	18.346	1.00	10.31	A
ATOM	2368	O	ASP	A	330	29.484	24.809	19.029	1.00	8.29	A
ATOM	2369	N	ASN	A	331	28.111	23.153	18.363	1.00	8.79	A
ATOM	2370	CA	ASN	A	331	28.698	22.217	19.311	1.00	10.91	A
ATOM	2371	CB	ASN	A	331	27.942	20.869	19.267	1.00	11.40	A
ATOM	2372	CG	ASN	A	331	26.579	20.924	19.989	1.00	15.36	A
ATOM	2373	OD1	ASN	A	331	25.926	19.893	20.194	1.00	12.09	A
ATOM	2374	ND2	ASN	A	331	26.156	22.115	20.372	1.00	9.71	A
ATOM	2375	C	ASN	A	331	30.220	22.012	19.218	1.00	12.28	A
ATOM	2376	O	ASN	A	331	30.877	21.866	20.255	1.00	12.57	A
ATOM	2377	N	ALA	A	332	30.795	22.001	18.012	1.00	10.00	A
ATOM	2378	CA	ALA	A	332	32.252	21.842	17.903	1.00	12.41	A
ATOM	2379	CB	ALA	A	332	32.677	21.733	16.445	1.00	12.06	A
ATOM	2380	C	ALA	A	332	32.964	23.028	18.548	1.00	8.53	A
ATOM	2381	O	ALA	A	332	33.973	22.872	19.247	1.00	11.75	A
ATOM	2382	N	ALA	A	333	32.447	24.216	18.297	1.00	9.64	A
ATOM	2383	CA	ALA	A	333	33.057	25.422	18.858	1.00	10.83	A
ATOM	2384	CB	ALA	A	333	32.424	26.655	18.223	1.00	9.42	A
ATOM	2385	C	ALA	A	333	32.910	25.473	20.379	1.00	10.44	A
ATOM	2386	O	ALA	A	333	33.787	25.982	21.096	1.00	9.81	A
ATOM	2387	N	ILE	A	334	31.787	24.963	20.869	1.00	9.49	A
ATOM	2388	CA	ILE	A	334	31.536	24.919	22.305	1.00	10.34	A
ATOM	2389	CB	ILE	A	334	30.099	24.404	22.567	1.00	7.35	A
ATOM	2390	CG2	ILE	A	334	29.902	24.030	24.056	1.00	4.48	A
ATOM	2391	CG1	ILE	A	334	29.093	25.467	22.091	1.00	8.68	A
ATOM	2392	CD1	ILE	A	334	27.628	24.953	22.043	1.00	8.29	A
ATOM	2393	C	ILE	A	334	32.593	24.003	22.946	1.00	9.03	A
ATOM	2394	O	ILE	A	334	33.239	24.352	23.954	1.00	6.82	A
ATOM	2395	N	GLN	A	335	32.805	22.847	22.333	1.00	6.99	A
ATOM	2396	CA	GLN	A	335	33.800	21.903	22.831	1.00	8.99	A
ATOM	2397	CB	GLN	A	335	33.695	20.589	22.053	1.00	11.58	A
ATOM	2398	CG	GLN	A	335	32.448	19.784	22.446	1.00	21.44	A
ATOM	2399	CD	GLN	A	335	32.279	18.518	21.598	1.00	30.71	A
ATOM	2400	OE1	GLN	A	335	33.212	18.083	20.927	1.00	34.68	A
ATOM	2401	NE2	GLN	A	335	31.089	17.926	21.638	1.00	37.34	A
ATOM	2402	C	GLN	A	335	35.223	22.438	22.774	1.00	12.27	A
ATOM	2403	O	GLN	A	335	36.014	22.219	23.704	1.00	10.25	A
ATOM	2404	N	ALA	A	336	35.547	23.143	21.690	1.00	10.75	A
ATOM	2405	CA	ALA	A	336	36.868	23.726	21.514	1.00	12.71	A
ATOM	2406	CB	ALA	A	336	36.989	24.375	20.091	1.00	9.35	A
ATOM	2407	C	ALA	A	336	37.109	24.794	22.591	1.00	11.11	A
ATOM	2408	O	ALA	A	336	38.247	25.134	22.894	1.00	11.00	A
ATOM	2409	N	ASN	A	337	36.025	25.310	23.164	1.00	8.06	A
ATOM	2410	CA	ASN	A	337	36.125	26.342	24.185	1.00	9.10	A
ATOM	2411	CB	ASN	A	337	35.098	27.440	23.887	1.00	8.86	A
ATOM	2412	CG	ASN	A	337	35.621	28.457	22.874	1.00	12.21	A
ATOM	2413	OD1	ASN	A	337	36.333	29.417	23.230	1.00	12.38	A
ATOM	2414	ND2	ASN	A	337	35.301	28.237	21.605	1.00	13.95	A
ATOM	2415	C	ASN	A	337	35.979	25.816	25.622	1.00	9.52	A
ATOM	2416	O	ASN	A	337	35.647	26.565	26.534	1.00	7.92	A
ATOM	2417	N	ALA	A	338	36.242	24.523	25.806	1.00	8.29	A
ATOM	2418	CA	ALA	A	338	36.194	23.863	27.117	1.00	8.92	A
ATOM	2419	CB	ALA	A	338	37.188	24.526	28.069	1.00	10.50	A
ATOM	2420	C	ALA	A	338	34.825	23.786	27.785	1.00	8.55	A
ATOM	2421	O	ALA	A	338	34.732	23.671	29.000	1.00	10.41	A
ATOM	2422	N	PHE	A	339	33.765	23.844	27.002	1.00	7.84	A
ATOM	2423	CA	PHE	A	339	32.410	23.781	27.553	1.00	8.93	A
ATOM	2424	CB	PHE	A	339	31.624	25.034	27.120	1.00	7.76	A
ATOM	2425	CG	PHE	A	339	32.258	26.345	27.576	1.00	10.23	A
ATOM	2426	CD1	PHE	A	339	32.566	26.557	28.923	1.00	11.28	A
ATOM	2427	CD2	PHE	A	339	32.497	27.369	26.664	1.00	9.75	A

FIGURE 5 (continued)

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ATOM   2428  CE1 PHE A 339      33.108  27.795  29.360  1.00 11.58      A
ATOM   2429  CE2 PHE A 339      33.033  28.613  27.077  1.00  8.17      A
ATOM   2430  CZ  PHE A 339      33.339  28.820  28.437  1.00  8.56      A
ATOM   2431  C   PHE A 339      31.647  22.514  27.151  1.00  9.93      A
ATOM   2432  O   PHE A 339      32.084  21.742  26.279  1.00  9.23      A
ATOM   2433  N   VAL A 340      30.508  22.304  27.797  1.00  8.19      A
ATOM   2434  CA  VAL A 340      29.669  21.139  27.531  1.00 10.26      A
ATOM   2435  CB  VAL A 340      29.169  20.468  28.851  1.00 11.72      A
ATOM   2436  CG1 VAL A 340      28.219  19.269  28.538  1.00  8.46      A
ATOM   2437  CG2 VAL A 340      30.346  19.998  29.679  1.00  8.91      A
ATOM   2438  C   VAL A 340      28.439  21.577  26.742  1.00  6.33      A
ATOM   2439  O   VAL A 340      27.675  22.433  27.186  1.00  6.81      A
ATOM   2440  N   PRO A 341      28.255  21.021  25.547  1.00  6.85      A
ATOM   2441  CD  PRO A 341      29.193  20.162  24.797  1.00 10.26      A
ATOM   2442  CA  PRO A 341      27.082  21.373  24.736  1.00  9.67      A
ATOM   2443  CB  PRO A 341      27.275  20.537  23.468  1.00 11.39      A
ATOM   2444  CG  PRO A 341      28.752  20.386  23.363  1.00 14.97      A
ATOM   2445  C   PRO A 341      25.807  20.931  25.497  1.00 10.96      A
ATOM   2446  O   PRO A 341      25.851  20.024  26.342  1.00 10.96      A
ATOM   2447  N   LEU A 342      24.673  21.558  25.211  1.00  8.13      A
ATOM   2448  CA  LEU A 342      23.435  21.157  25.870  1.00 10.08      A
ATOM   2449  CB  LEU A 342      22.326  22.194  25.646  1.00 12.81      A
ATOM   2450  CG  LEU A 342      22.558  23.605  26.207  1.00 16.13      A
ATOM   2451  CD1 LEU A 342      21.280  24.428  26.007  1.00 10.84      A
ATOM   2452  CD2 LEU A 342      22.908  23.542  27.715  1.00 14.00      A
ATOM   2453  C   LEU A 342      22.981  19.821  25.288  1.00 11.91      A
ATOM   2454  O   LEU A 342      23.142  19.565  24.072  1.00 10.04      A
ATOM   2455  N   PRO A 343      22.437  18.937  26.147  1.00 10.12      A
ATOM   2456  CD  PRO A 343      22.407  19.074  27.618  1.00  8.23      A
ATOM   2457  CA  PRO A 343      21.947  17.622  25.721  1.00 11.60      A
ATOM   2458  CB  PRO A 343      21.407  17.006  27.021  1.00 11.29      A
ATOM   2459  CG  PRO A 343      22.287  17.643  28.083  1.00 12.10      A
ATOM   2460  C   PRO A 343      20.850  17.839  24.688  1.00 11.38      A
ATOM   2461  O   PRO A 343      20.229  18.896  24.648  1.00 10.75      A
ATOM   2462  N   SER A 344      20.590  16.836  23.861  1.00  9.55      A
ATOM   2463  CA  SER A 344      19.592  16.995  22.801  1.00  8.34      A
ATOM   2464  CB  SER A 344      19.547  15.741  21.940  1.00 15.39      A
ATOM   2465  OG  SER A 344      19.245  14.625  22.760  1.00 23.25      A
ATOM   2466  C   SER A 344      18.185  17.315  23.281  1.00  8.79      A
ATOM   2467  O   SER A 344      17.474  18.051  22.615  1.00 11.06      A
ATOM   2468  N   ASN A 345      17.751  16.744  24.410  1.00 11.97      A
ATOM   2469  CA  ASN A 345      16.403  17.061  24.874  1.00 13.51      A
ATOM   2470  CB  ASN A 345      15.962  16.128  26.015  1.00 11.25      A
ATOM   2471  CG  ASN A 345      16.896  16.145  27.206  1.00 19.63      A
ATOM   2472  OD1 ASN A 345      18.105  16.399  27.083  1.00 15.65      A
ATOM   2473  ND2 ASN A 345      16.343  15.822  28.379  1.00 15.03      A
ATOM   2474  C   ASN A 345      16.296  18.532  25.277  1.00 12.03      A
ATOM   2475  O   ASN A 345      15.236  19.131  25.167  1.00 11.72      A
ATOM   2476  N   TRP A 346      17.397  19.115  25.739  1.00 10.97      A
ATOM   2477  CA  TRP A 346      17.397  20.533  26.097  1.00  9.55      A
ATOM   2478  CB  TRP A 346      18.663  20.890  26.881  1.00  8.50      A
ATOM   2479  CG  TRP A 346      18.475  20.695  28.372  1.00  9.10      A
ATOM   2480  CD2 TRP A 346      17.927  21.660  29.285  1.00 10.08      A
ATOM   2481  CE2 TRP A 346      17.831  21.036  30.549  1.00 12.11      A
ATOM   2482  CE3 TRP A 346      17.502  22.994  29.149  1.00  9.60      A
ATOM   2483  CD1 TRP A 346      18.694  19.553  29.099  1.00  9.06      A
ATOM   2484  NE1 TRP A 346      18.304  19.752  30.411  1.00  9.93      A
ATOM   2485  CZ2 TRP A 346      17.323  21.705  31.682  1.00  9.30      A
ATOM   2486  CZ3 TRP A 346      17.004  23.662  30.261  1.00 10.14      A
ATOM   2487  CH2 TRP A 346      16.917  23.012  31.522  1.00 12.99      A
ATOM   2488  C   TRP A 346      17.298  21.390  24.824  1.00 10.69      A
ATOM   2489  O   TRP A 346      16.509  22.333  24.769  1.00 13.16      A
ATOM   2490  N   LYS A 347      18.087  21.074  23.804  1.00  9.34      A
ATOM   2491  CA  LYS A 347      17.984  21.852  22.557  1.00  8.27      A
ATOM   2492  CB  LYS A 347      18.902  21.287  21.466  1.00 12.86      A
ATOM   2493  CG  LYS A 347      20.416  21.357  21.748  1.00 11.51      A
ATOM   2494  CD  LYS A 347      21.221  21.071  20.440  1.00 14.73      A
ATOM   2495  CE  LYS A 347      22.733  21.317  20.590  1.00 14.12      A
ATOM   2496  NZ  LYS A 347      23.467  20.312  21.462  1.00 10.37      A
ATOM   2497  C   LYS A 347      16.549  21.789  22.030  1.00 10.83      A
ATOM   2498  O   LYS A 347      15.956  22.814  21.631  1.00  8.78      A
ATOM   2499  N   ALA A 348      15.987  20.583  21.997  1.00  9.70      A
ATOM   2500  CA  ALA A 348      14.627  20.418  21.472  1.00  9.41      A
ATOM   2501  CB  ALA A 348      14.238  18.928  21.448  1.00 12.04      A
ATOM   2502  C   ALA A 348      13.589  21.224  22.251  1.00 10.82      A
ATOM   2503  O   ALA A 348      12.678  21.830  21.657  1.00  9.58      A
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FIGURE 5 (continued)

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ATOM   2504  N   ALA A 349      13.735  21.261  23.569  1.00  9.39      A
ATOM   2505  CA  ALA A 349      12.791  22.018  24.392  1.00  8.51      A
ATOM   2506  CB  ALA A 349      13.045  21.750  25.891  1.00  8.51      A
ATOM   2507  C   ALA A 349      12.909  23.518  24.095  1.00 10.22      A
ATOM   2508  O   ALA A 349      11.888  24.224  24.012  1.00  8.91      A
ATOM   2509  N   VAL A 350      14.140  24.002  23.930  1.00 12.16      A
ATOM   2510  CA  VAL A 350      14.347  25.423  23.649  1.00  8.94      A
ATOM   2511  CB  VAL A 350      15.863  25.794  23.629  1.00  8.30      A
ATOM   2512  CG1 VAL A 350      16.075  27.221  23.071  1.00  8.00      A
ATOM   2513  CG2 VAL A 350      16.439  25.729  25.075  1.00  8.81      A
ATOM   2514  C   VAL A 350      13.709  25.763  22.305  1.00 10.89      A
ATOM   2515  O   VAL A 350      13.046  26.787  22.177  1.00 11.46      A
ATOM   2516  N   ARG A 351      13.890  24.895  21.313  1.00 10.91      A
ATOM   2517  CA  ARG A 351      13.289  25.144  20.002  1.00 11.54      A
ATOM   2518  CB  ARG A 351      13.765  24.106  18.988  1.00 10.07      A
ATOM   2519  CG  ARG A 351      15.237  24.167  18.647  1.00 10.05      A
ATOM   2520  CD  ARG A 351      15.527  23.433  17.312  1.00 14.16      A
ATOM   2521  NE  ARG A 351      14.971  22.067  17.282  1.00 17.52      A
ATOM   2522  CZ  ARG A 351      15.577  20.991  17.780  1.00 14.15      A
ATOM   2523  NH1 ARG A 351      14.993  19.802  17.708  1.00 14.19      A
ATOM   2524  NH2 ARG A 351      16.775  21.097  18.338  1.00 15.54      A
ATOM   2525  C   ARG A 351      11.750  25.097  20.069  1.00 13.24      A
ATOM   2526  O   ARG A 351      11.061  25.925  19.477  1.00 10.64      A
ATOM   2527  N   ALA A 352      11.221  24.112  20.786  1.00 10.94      A
ATOM   2528  CA  ALA A 352       9.772  23.942  20.890  1.00 13.45      A
ATOM   2529  CB  ALA A 352       9.447  22.656  21.636  1.00 14.54      A
ATOM   2530  C   ALA A 352       9.028  25.112  21.527  1.00 14.05      A
ATOM   2531  O   ALA A 352       7.875  25.385  21.193  1.00  9.92      A
ATOM   2532  N   SER A 353       9.669  25.802  22.454  1.00  9.51      A
ATOM   2533  CA  SER A 353       9.024  26.932  23.094  1.00 10.39      A
ATOM   2534  CB  SER A 353       9.503  27.088  24.548  1.00 11.56      A
ATOM   2535  OG  SER A 353       8.802  26.220  25.436  1.00 14.83      A
ATOM   2536  C   SER A 353       9.308  28.245  22.386  1.00 12.07      A
ATOM   2537  O   SER A 353       8.403  29.033  22.178  1.00 12.33      A
ATOM   2538  N   TYR A 354      10.568  28.459  22.015  1.00 10.56      A
ATOM   2539  CA  TYR A 354      10.955  29.733  21.455  1.00  8.65      A
ATOM   2540  CB  TYR A 354      12.240  30.188  22.159  1.00 11.42      A
ATOM   2541  CG  TYR A 354      12.077  30.164  23.670  1.00 11.26      A
ATOM   2542  CD1 TYR A 354      11.168  31.007  24.296  1.00 11.16      A
ATOM   2543  CE1 TYR A 354      10.962  30.955  25.673  1.00 13.86      A
ATOM   2544  CD2 TYR A 354      12.795  29.265  24.455  1.00 12.94      A
ATOM   2545  CE2 TYR A 354      12.608  29.204  25.846  1.00 13.83      A
ATOM   2546  CZ  TYR A 354      11.692  30.048  26.437  1.00 15.93      A
ATOM   2547  OH  TYR A 354      11.496  29.985  27.784  1.00 31.84      A
ATOM   2548  C   TYR A 354      11.069  29.882  19.951  1.00 11.12      A
ATOM   2549  O   TYR A 354      11.137  31.011  19.456  1.00 11.00      A
ATOM   2550  N   LEU A 355      11.097  28.778  19.218  1.00  9.87      A
ATOM   2551  CA  LEU A 355      11.156  28.896  17.757  1.00 11.35      A
ATOM   2552  CB  LEU A 355      12.292  28.069  17.185  1.00 12.01      A
ATOM   2553  CG  LEU A 355      13.697  28.633  17.424  1.00 18.77      A
ATOM   2554  CD1 LEU A 355      14.731  27.617  16.930  1.00 13.44      A
ATOM   2555  CD2 LEU A 355      13.856  29.963  16.666  1.00 19.42      A
ATOM   2556  C   LEU A 355       9.848  28.484  17.086  1.00 12.49      A
ATOM   2557  O   LEU A 355       9.337  29.208  16.231  1.00 13.91      A
ATOM   2558  N   THR A 356       9.300  27.331  17.458  1.00 13.88      A
ATOM   2559  CA  THR A 356       8.036  26.866  16.849  1.00 16.44      A
ATOM   2560  CB  THR A 356       7.414  25.759  17.704  1.00 19.06      A
ATOM   2561  OG1 THR A 356       8.352  24.678  17.794  1.00 22.02      A
ATOM   2562  CG2 THR A 356       6.108  25.265  17.077  1.00 20.44      A
ATOM   2563  C   THR A 356       7.058  28.040  16.684  1.00 15.88      A
ATOM   2564  O   THR A 356       6.609  28.642  17.658  1.00 14.53      A
ATOM   2565  N   ALA A 357       6.720  28.362  15.441  1.00 16.53      A
ATOM   2566  CA  ALA A 357       5.892  29.536  15.175  1.00 15.13      A
ATOM   2567  CB  ALA A 357       5.654  29.669  13.662  1.00 17.87      A
ATOM   2568  C   ALA A 357       4.569  29.630  15.918  1.00 18.27      A
ATOM   2569  O   ALA A 357       4.141  30.714  16.295  1.00 19.17      A
ATOM   2570  N   SER A 358       3.930  28.492  16.127  1.00 18.84      A
ATOM   2571  CA  SER A 358       2.643  28.444  16.800  1.00 22.62      A
ATOM   2572  CB  SER A 358       1.953  27.125  16.459  1.00 18.79      A
ATOM   2573  OG  SER A 358       2.853  26.049  16.654  1.00 21.93      A
ATOM   2574  C   SER A 358       2.716  28.607  18.318  1.00 22.54      A
ATOM   2575  O   SER A 358       1.719  28.918  18.949  1.00 19.82      A
ATOM   2576  N   ASN A 359       3.886  28.410  18.916  1.00 20.48      A
ATOM   2577  CA  ASN A 359       3.950  28.550  20.358  1.00 16.65      A
ATOM   2578  CB  ASN A 359       5.249  27.956  20.909  1.00 12.27      A
ATOM   2579  CG  ASN A 359       5.180  27.718  22.387  1.00 11.80      A
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FIGURE 5 (continued)

ATOM	2580	OD1	ASN	A	359	4.992	28.652	23.170	1.00	16.11	A
ATOM	2581	ND2	ASN	A	359	5.329	26.451	22.793	1.00	14.58	A
ATOM	2582	C	ASN	A	359	3.844	30.019	20.745	1.00	16.93	A
ATOM	2583	O	ASN	A	359	4.550	30.861	20.194	1.00	15.08	A
ATOM	2584	N	ALA	A	360	2.972	30.306	21.712	1.00	15.71	A
ATOM	2585	CA	ALA	A	360	2.759	31.664	22.208	1.00	18.67	A
ATOM	2586	CB	ALA	A	360	1.688	31.651	23.320	1.00	22.67	A
ATOM	2587	C	ALA	A	360	4.041	32.309	22.744	1.00	18.59	A
ATOM	2588	O	ALA	A	360	4.138	33.532	22.825	1.00	16.11	A
ATOM	2589	N	LEU	A	361	5.010	31.488	23.144	1.00	14.62	A
ATOM	2590	CA	LEU	A	361	6.276	32.021	23.653	1.00	11.27	A
ATOM	2591	CB	LEU	A	361	6.863	31.060	24.685	1.00	15.51	A
ATOM	2592	CG	LEU	A	361	6.087	30.788	25.971	1.00	15.37	A
ATOM	2593	CD1	LEU	A	361	6.713	29.586	26.688	1.00	15.50	A
ATOM	2594	CD2	LEU	A	361	6.086	32.030	26.849	1.00	14.07	A
ATOM	2595	C	LEU	A	361	7.334	32.219	22.545	1.00	12.87	A
ATOM	2596	O	LEU	A	361	8.430	32.716	22.818	1.00	12.41	A
ATOM	2597	N	SER	A	362	7.036	31.821	21.314	1.00	9.97	A
ATOM	2598	CA	SER	A	362	8.044	31.936	20.257	1.00	10.76	A
ATOM	2599	CB	SER	A	362	7.627	31.145	19.011	1.00	15.72	A
ATOM	2600	OG	SER	A	362	6.470	31.707	18.416	1.00	18.79	A
ATOM	2601	C	SER	A	362	8.454	33.338	19.822	1.00	12.29	A
ATOM	2602	O	SER	A	362	7.637	34.258	19.742	1.00	12.85	A
ATOM	2603	N	ILE	A	363	9.741	33.457	19.512	1.00	10.84	A
ATOM	2604	CA	ILE	A	363	10.353	34.698	19.072	1.00	14.99	A
ATOM	2605	CB	ILE	A	363	11.850	34.461	18.777	1.00	13.05	A
ATOM	2606	CG2	ILE	A	363	12.483	35.713	18.198	1.00	12.46	A
ATOM	2607	CG1	ILE	A	363	12.578	34.071	20.064	1.00	15.60	A
ATOM	2608	CD1	ILE	A	363	13.960	33.442	19.815	1.00	11.48	A
ATOM	2609	C	ILE	A	363	9.639	35.206	17.807	1.00	14.29	A
ATOM	2610	O	ILE	A	363	9.509	34.481	16.830	1.00	12.01	A
ATOM	2611	N	GLY	A	364	9.176	36.451	17.848	1.00	15.53	A
ATOM	2612	CA	GLY	A	364	8.477	37.034	16.717	1.00	14.88	A
ATOM	2613	C	GLY	A	364	7.040	36.567	16.514	1.00	19.34	A
ATOM	2614	O	GLY	A	364	6.436	36.872	15.487	1.00	19.36	A
ATOM	2615	N	ASP	A	365	6.471	35.842	17.474	1.00	15.42	A
ATOM	2616	CA	ASP	A	365	5.094	35.360	17.323	1.00	16.08	A
ATOM	2617	CB	ASP	A	365	4.625	34.691	18.613	1.00	17.24	A
ATOM	2618	CG	ASP	A	365	3.195	34.201	18.516	1.00	22.13	A
ATOM	2619	OD1	ASP	A	365	2.992	33.003	18.238	1.00	24.97	A
ATOM	2620	OD2	ASP	A	365	2.272	35.025	18.698	1.00	22.46	A
ATOM	2621	C	ASP	A	365	4.100	36.490	16.954	1.00	20.12	A
ATOM	2622	O	ASP	A	365	3.979	37.482	17.668	1.00	17.92	A
ATOM	2623	N	SER	A	366	3.379	36.317	15.848	1.00	21.25	A
ATOM	2624	CA	SER	A	366	2.419	37.319	15.360	1.00	19.32	A
ATOM	2625	CB	SER	A	366	1.704	36.787	14.108	1.00	21.13	A
ATOM	2626	OG	SER	A	366	2.640	36.400	13.125	1.00	29.92	A
ATOM	2627	C	SER	A	366	1.359	37.814	16.342	1.00	15.84	A
ATOM	2628	O	SER	A	366	1.155	39.010	16.461	1.00	22.39	A
ATOM	2629	N	ALA	A	367	0.655	36.920	17.024	1.00	18.40	A
ATOM	2630	CA	ALA	A	367	-0.384	37.363	17.965	1.00	22.33	A
ATOM	2631	CB	ALA	A	367	-1.220	36.175	18.431	1.00	19.13	A
ATOM	2632	C	ALA	A	367	0.182	38.093	19.187	1.00	25.24	A
ATOM	2633	O	ALA	A	367	-0.402	39.066	19.682	1.00	26.45	A
ATOM	2634	N	VAL	A	368	1.311	37.612	19.692	1.00	24.39	A
ATOM	2635	CA	VAL	A	368	1.903	38.229	20.864	1.00	21.43	A
ATOM	2636	CB	VAL	A	368	2.729	37.182	21.657	1.00	23.84	A
ATOM	2637	CG1	VAL	A	368	3.447	37.838	22.850	1.00	19.42	A
ATOM	2638	CG2	VAL	A	368	1.810	36.094	22.148	1.00	25.28	A
ATOM	2639	C	VAL	A	368	2.770	39.447	20.558	1.00	19.50	A
ATOM	2640	O	VAL	A	368	2.713	40.440	21.277	1.00	22.77	A
ATOM	2641	N	CYS	A	369	3.557	39.396	19.491	1.00	17.47	A
ATOM	2642	CA	CYS	A	369	4.448	40.505	19.195	1.00	20.32	A
ATOM	2643	C	CYS	A	369	3.919	41.648	18.322	1.00	23.64	A
ATOM	2644	O	CYS	A	369	4.617	42.639	18.120	1.00	26.98	A
ATOM	2645	CB	CYS	A	369	5.746	39.977	18.581	1.00	22.42	A
ATOM	2646	SG	CYS	A	369	6.819	38.961	19.671	1.00	19.53	A
ATOM	2647	N	GLY	A	370	2.698	41.521	17.812	1.00	25.38	A
ATOM	2648	CA	GLY	A	370	2.154	42.575	16.966	1.00	27.80	A
ATOM	2649	C	GLY	A	370	2.190	43.938	17.627	1.00	21.46	A
ATOM	2650	O	GLY	A	370	1.631	44.112	18.705	1.00	25.76	A
ATOM	2651	N	GLY	A	371	2.872	44.885	16.988	1.00	20.44	A
ATOM	2652	CA	GLY	A	371	2.970	46.237	17.516	1.00	23.12	A
ATOM	2653	C	GLY	A	371	3.913	46.463	18.695	1.00	26.63	A
ATOM	2654	O	GLY	A	371	3.946	47.561	19.263	1.00	23.97	A
ATOM	2655	N	LYS	A	372	4.689	45.443	19.057	1.00	23.24	A

FIGURE 5 (continued)

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ATOM   2656  CA  LYS A 372       5.612  45.537  20.197  1.00 21.66      A
ATOM   2657  CB  LYS A 372       5.141  44.605  21.296  1.00 19.20      A
ATOM   2658  CG  LYS A 372       3.715  44.856  21.675  1.00 25.31      A
ATOM   2659  CD  LYS A 372       3.278  43.936  22.769  1.00 24.34      A
ATOM   2660  CE  LYS A 372       1.884  44.315  23.208  1.00 29.63      A
ATOM   2661  NZ  LYS A 372       1.426  43.423  24.285  1.00 25.95      A
ATOM   2662  C   LYS A 372       7.037  45.167  19.855  1.00 18.74      A
ATOM   2663  O   LYS A 372       7.337  44.799  18.721  1.00 17.43      A
ATOM   2664  N   GLY A 373       7.917  45.247  20.852  1.00 15.44      A
ATOM   2665  CA  GLY A 373       9.297  44.876  20.616  1.00 12.87      A
ATOM   2666  C   GLY A 373      10.366  45.876  21.015  1.00 17.42      A
ATOM   2667  O   GLY A 373      10.168  47.106  20.965  1.00 13.70      A
ATOM   2668  N   ARG A 374      11.517  45.342  21.419  1.00 14.49      A
ATOM   2669  CA  ARG A 374      12.639  46.187  21.792  1.00 13.29      A
ATOM   2670  CB  ARG A 374      13.786  45.339  22.333  1.00 15.72      A
ATOM   2671  CG  ARG A 374      13.456  44.710  23.692  1.00 18.10      A
ATOM   2672  CD  ARG A 374      14.668  44.080  24.332  1.00 20.11      A
ATOM   2673  NE  ARG A 374      15.729  45.034  24.665  1.00 13.47      A
ATOM   2674  CZ  ARG A 374      16.143  45.296  25.899  1.00 13.50      A
ATOM   2675  NH1 ARG A 374      15.564  44.694  26.928  1.00 11.14      A
ATOM   2676  NH2 ARG A 374      17.206  46.082  26.100  1.00  9.65      A
ATOM   2677  C   ARG A 374      13.097  46.989  20.563  1.00 14.09      A
ATOM   2678  O   ARG A 374      13.008  46.517  19.411  1.00 13.90      A
ATOM   2679  N   PRO A 375      13.575  48.225  20.797  1.00 13.52      A
ATOM   2680  CD  PRO A 375      13.680  48.834  22.133  1.00 12.37      A
ATOM   2681  CA  PRO A 375      14.051  49.137  19.753  1.00 15.51      A
ATOM   2682  CB  PRO A 375      14.304  50.445  20.516  1.00 18.56      A
ATOM   2683  CG  PRO A 375      14.669  49.958  21.903  1.00 16.56      A
ATOM   2684  C   PRO A 375      15.282  48.622  19.017  1.00 16.94      A
ATOM   2685  O   PRO A 375      16.130  47.953  19.605  1.00 16.29      A
ATOM   2686  N   GLU A 376      15.384  48.956  17.733  1.00 14.83      A
ATOM   2687  CA  GLU A 376      16.501  48.480  16.928  1.00 14.54      A
ATOM   2688  CB  GLU A 376      16.191  48.638  15.429  1.00 20.94      A
ATOM   2689  CG  GLU A 376      15.989  50.054  14.930  1.00 25.93      A
ATOM   2690  CD  GLU A 376      15.840  50.093  13.408  1.00 28.12      A
ATOM   2691  OE1 GLU A 376      16.852  50.265  12.693  1.00 27.73      A
ATOM   2692  OE2 GLU A 376      14.706  49.921  12.926  1.00 22.85      A
ATOM   2693  C   GLU A 376      17.818  49.144  17.258  1.00 15.46      A
ATOM   2694  O   GLU A 376      17.779  50.308  17.715  1.00 20.34      A
ATOM   2695  OXT GLU A 376      18.870  48.501  17.040  1.00 17.16      A
ATOM   2696  OH2 WAT S1500      35.620  33.372  34.950  1.00  7.74      S
ATOM   2697  OH2 WAT S1501      26.719  26.585  54.115  1.00 13.35      S
ATOM   2698  OH2 WAT S1502      32.910  38.720  42.612  1.00 11.02      S
ATOM   2699  OH2 WAT S1503      25.842  40.990  19.393  1.00 10.30      S
ATOM   2700  OH2 WAT S1504      47.855  24.508  32.439  1.00 11.64      S
ATOM   2701  OH2 WAT S1505      37.575  38.877  30.460  1.00 13.25      S
ATOM   2702  OH2 WAT S1506      43.970  19.166  36.360  1.00 11.89      S
ATOM   2703  OH2 WAT S1507      51.431  26.280  38.870  1.00 11.08      S
ATOM   2704  OH2 WAT S1508      21.180  34.238  33.496  1.00 10.94      S
ATOM   2705  OH2 WAT S1509      34.016  23.145  55.150  1.00  7.21      S
ATOM   2706  OH2 WAT S1510      34.137  35.767  50.996  1.00 14.32      S
ATOM   2707  OH2 WAT S1511      29.833  31.064  61.815  1.00 12.62      S
ATOM   2708  OH2 WAT S1512      36.421  34.348  51.750  1.00  8.81      S
ATOM   2709  OH2 WAT S1513      24.593  22.841  22.601  1.00 14.49      S
ATOM   2710  OH2 WAT S1514      33.875  20.919  53.336  1.00 15.73      S
ATOM   2711  OH2 WAT S1515      55.590  18.894  44.228  1.00 20.22      S
ATOM   2712  OH2 WAT S1516      25.163  24.507  19.298  1.00  7.32      S
ATOM   2713  OH2 WAT S1517      29.287  27.565  53.584  1.00 10.43      S
ATOM   2714  OH2 WAT S1518      27.630  35.157  54.573  1.00 11.84      S
ATOM   2715  OH2 WAT S1519      34.308  40.814  45.314  1.00  9.91      S
ATOM   2716  OH2 WAT S1520      24.097  26.340  47.444  1.00 12.35      S
ATOM   2717  OH2 WAT S1521      26.289  17.353  26.191  1.00 14.15      S
ATOM   2718  OH2 WAT S1522      31.025  26.248  57.309  1.00  9.97      S
ATOM   2719  OH2 WAT S1523      16.012  33.323  36.822  1.00 10.61      S
ATOM   2720  OH2 WAT S1524      35.079  31.981  26.882  1.00  7.27      S
ATOM   2721  OH2 WAT S1525      48.948  16.302  35.666  1.00 22.32      S
ATOM   2722  OH2 WAT S1526      23.036  32.247  50.228  1.00 12.80      S
ATOM   2723  OH2 WAT S1527      41.445  42.204  48.819  1.00 16.71      S
ATOM   2724  OH2 WAT S1528      30.777  34.835  16.827  1.00 12.96      S
ATOM   2725  OH2 WAT S1529       9.482  33.895  27.983  1.00 10.22      S
ATOM   2726  OH2 WAT S1530      10.107  31.646  29.601  1.00 12.12      S
ATOM   2727  OH2 WAT S1531      37.836  31.446  58.127  1.00 18.63      S
ATOM   2728  OH2 WAT S1532      23.419  29.528  35.937  1.00 10.10      S
ATOM   2729  OH2 WAT S1533      36.234  16.727  51.505  1.00  9.28      S
ATOM   2730  OH2 WAT S1534       5.728  38.503  24.985  1.00 13.33      S
ATOM   2731  OH2 WAT S1535      29.914  14.295  35.432  1.00 16.41      S
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FIGURE 5 (continued)

ATOM	2732	OH2	WAT	S1536	31.310	38.281	18.695	1.00	9.93	S
ATOM	2733	OH2	WAT	S1537	44.863	16.606	36.022	1.00	15.09	S
ATOM	2734	OH2	WAT	S1538	40.186	22.869	38.700	1.00	9.90	S
ATOM	2735	OH2	WAT	S1539	37.549	20.501	28.090	1.00	13.36	S
ATOM	2736	OH2	WAT	S1540	12.913	31.829	29.436	1.00	9.36	S
ATOM	2737	OH2	WAT	S1541	30.589	15.671	37.530	1.00	12.47	S
ATOM	2738	OH2	WAT	S1542	23.885	35.406	43.402	1.00	18.37	S
ATOM	2739	OH2	WAT	S1543	8.663	34.010	25.289	1.00	13.37	S
ATOM	2740	OH2	WAT	S1544	13.484	46.444	33.757	1.00	12.24	S
ATOM	2741	OH2	WAT	S1545	27.923	19.477	57.944	1.00	11.68	S
ATOM	2742	OH2	WAT	S1546	17.540	33.345	7.715	1.00	19.22	S
ATOM	2743	OH2	WAT	S1547	51.552	13.602	41.885	1.00	25.84	S
ATOM	2744	OH2	WAT	S1548	27.270	26.074	40.675	1.00	10.51	S
ATOM	2745	OH2	WAT	S1549	27.760	43.771	20.816	1.00	13.46	S
ATOM	2746	OH2	WAT	S1550	37.046	17.292	27.914	1.00	14.34	S
ATOM	2747	OH2	WAT	S1551	37.573	33.819	20.741	1.00	23.07	S
ATOM	2748	OH2	WAT	S1552	40.930	14.067	35.565	1.00	17.08	S
ATOM	2749	OH2	WAT	S1553	4.472	29.061	32.567	1.00	18.41	S
ATOM	2750	OH2	WAT	S1554	26.302	32.912	28.375	1.00	10.00	S
ATOM	2751	OH2	WAT	S1555	14.165	45.737	16.934	1.00	13.06	S
ATOM	2752	OH2	WAT	S1556	29.555	43.029	36.030	1.00	7.32	S
ATOM	2753	OH2	WAT	S1557	36.451	34.819	37.298	1.00	11.33	S
ATOM	2754	OH2	WAT	S1558	31.931	17.255	49.603	1.00	39.16	S
ATOM	2755	OH2	WAT	S1559	23.622	26.926	37.001	1.00	11.87	S
ATOM	2756	OH2	WAT	S1560	31.327	13.311	33.059	1.00	12.47	S
ATOM	2757	OH2	WAT	S1561	44.899	41.787	36.741	1.00	23.25	S
ATOM	2758	OH2	WAT	S1562	44.879	35.365	50.334	1.00	9.60	S
ATOM	2759	OH2	WAT	S1563	20.827	50.011	18.100	1.00	15.06	S
ATOM	2760	OH2	WAT	S1564	24.374	31.041	38.304	1.00	12.38	S
ATOM	2761	OH2	WAT	S1565	11.411	42.003	26.114	1.00	14.55	S
ATOM	2762	OH2	WAT	S1566	21.341	35.751	40.722	1.00	12.16	S
ATOM	2763	OH2	WAT	S1567	10.175	31.393	39.888	1.00	37.76	S
ATOM	2764	OH2	WAT	S1568	47.181	26.945	33.704	1.00	12.30	S
ATOM	2765	OH2	WAT	S1569	42.028	43.488	36.919	1.00	25.46	S
ATOM	2766	OH2	WAT	S1570	31.053	24.724	15.706	1.00	12.46	S
ATOM	2767	OH2	WAT	S1571	10.314	39.156	33.480	1.00	10.32	S
ATOM	2768	OH2	WAT	S1572	51.433	20.485	50.130	1.00	15.09	S
ATOM	2769	OH2	WAT	S1573	43.925	30.656	51.790	1.00	17.28	S
ATOM	2770	OH2	WAT	S1574	23.091	53.758	28.375	1.00	12.50	S
ATOM	2771	OH2	WAT	S1575	34.977	41.183	53.019	1.00	15.31	S
ATOM	2772	OH2	WAT	S1576	29.766	26.781	12.309	1.00	18.82	S
ATOM	2773	OH2	WAT	S1577	9.190	36.561	30.593	1.00	11.25	S
ATOM	2774	OH2	WAT	S1578	36.599	15.728	48.666	1.00	21.18	S
ATOM	2775	OH2	WAT	S1579	37.724	34.865	54.143	1.00	11.62	S
ATOM	2776	OH2	WAT	S1580	21.457	35.713	12.303	1.00	13.24	S
ATOM	2777	OH2	WAT	S1581	27.734	31.073	59.797	1.00	14.78	S
ATOM	2778	OH2	WAT	S1582	51.536	35.554	40.163	1.00	14.52	S
ATOM	2779	OH2	WAT	S1583	29.933	42.651	53.057	1.00	14.55	S
ATOM	2780	OH2	WAT	S1584	9.469	23.677	25.125	1.00	12.14	S
ATOM	2781	OH2	WAT	S1585	20.704	29.372	11.334	1.00	17.80	S
ATOM	2782	OH2	WAT	S1586	56.481	22.975	38.435	1.00	29.16	S
ATOM	2783	OH2	WAT	S1587	9.572	40.421	17.037	1.00	14.99	S
ATOM	2784	OH2	WAT	S1588	20.542	42.224	40.862	1.00	13.90	S
ATOM	2785	OH2	WAT	S1589	9.567	37.848	39.841	1.00	15.10	S
ATOM	2786	OH2	WAT	S1590	6.391	48.835	28.636	1.00	19.52	S
ATOM	2787	OH2	WAT	S1591	41.492	20.894	55.469	1.00	16.40	S
ATOM	2788	OH2	WAT	S1592	22.505	28.556	52.952	1.00	24.23	S
ATOM	2789	OH2	WAT	S1593	27.720	46.441	20.204	1.00	15.40	S
ATOM	2790	OH2	WAT	S1594	37.216	41.499	30.864	1.00	19.68	S
ATOM	2791	OH2	WAT	S1595	30.199	27.159	15.034	1.00	11.19	S
ATOM	2792	OH2	WAT	S1596	25.139	30.964	53.858	1.00	21.47	S
ATOM	2793	OH2	WAT	S1597	35.730	20.698	18.767	1.00	15.15	S
ATOM	2794	OH2	WAT	S1598	44.994	20.666	23.797	1.00	17.67	S
ATOM	2795	OH2	WAT	S1599	28.802	58.069	26.514	1.00	17.28	S
ATOM	2796	OH2	WAT	S1600	16.767	47.104	22.319	1.00	11.98	S
ATOM	2797	OH2	WAT	S1601	30.159	33.756	60.797	1.00	9.19	S
ATOM	2798	OH2	WAT	S1602	48.106	27.997	36.005	1.00	14.93	S
ATOM	2799	OH2	WAT	S1603	40.650	24.407	21.552	1.00	17.12	S
ATOM	2800	OH2	WAT	S1604	22.968	17.449	18.008	1.00	17.85	S
ATOM	2801	OH2	WAT	S1605	16.621	15.788	18.605	1.00	25.68	S
ATOM	2802	OH2	WAT	S1606	7.206	32.992	16.005	1.00	14.53	S
ATOM	2803	OH2	WAT	S1607	57.149	24.564	47.629	1.00	18.35	S
ATOM	2804	OH2	WAT	S1608	24.205	26.840	10.350	1.00	23.21	S
ATOM	2805	OH2	WAT	S1609	33.745	22.604	31.364	1.00	14.24	S
ATOM	2806	OH2	WAT	S1610	21.687	28.608	49.750	1.00	41.13	S
ATOM	2807	OH2	WAT	S1611	25.572	18.289	18.085	1.00	18.47	S

FIGURE 5 (continued)

ATOM	2808	OH2	WAT	S1612	29.378	22.049	15.378	1.00	18.53	S
ATOM	2809	OH2	WAT	S1613	47.580	17.180	46.156	1.00	18.00	S
ATOM	2810	OH2	WAT	S1614	23.216	43.309	37.644	1.00	13.17	S
ATOM	2811	OH2	WAT	S1615	22.669	24.274	48.564	1.00	24.15	S
ATOM	2812	OH2	WAT	S1616	0.336	31.433	18.582	1.00	27.87	S
ATOM	2813	OH2	WAT	S1617	45.294	33.053	51.773	1.00	13.88	S
ATOM	2814	OH2	WAT	S1618	44.363	26.868	22.624	1.00	23.01	S
ATOM	2815	OH2	WAT	S1619	24.023	16.291	14.532	1.00	14.28	S
ATOM	2816	OH2	WAT	S1620	25.803	16.259	28.626	1.00	18.77	S
ATOM	2817	OH2	WAT	S1621	10.423	51.944	32.078	1.00	36.29	S
ATOM	2818	OH2	WAT	S1622	26.115	58.809	27.014	1.00	15.64	S
ATOM	2819	OH2	WAT	S1623	1.344	28.356	22.672	1.00	26.37	S
ATOM	2820	OH2	WAT	S1624	26.639	58.198	21.115	1.00	25.02	S
ATOM	2821	OH2	WAT	S1625	26.622	32.997	55.284	1.00	16.24	S
ATOM	2822	OH2	WAT	S1626	15.027	52.473	26.183	1.00	21.76	S
ATOM	2823	OH2	WAT	S1627	57.187	25.783	44.900	1.00	20.20	S
ATOM	2824	OH2	WAT	S1628	44.922	43.322	47.514	1.00	18.96	S
ATOM	2825	OH2	WAT	S1629	32.001	38.779	53.199	1.00	17.42	S
ATOM	2826	OH2	WAT	S1630	30.741	52.390	22.108	1.00	18.11	S
ATOM	2827	OH2	WAT	S1631	14.999	39.258	44.162	1.00	19.15	S
ATOM	2828	OH2	WAT	S1632	44.210	20.606	55.552	1.00	17.79	S
ATOM	2829	OH2	WAT	S1633	21.471	43.377	12.416	1.00	19.05	S
ATOM	2830	OH2	WAT	S1634	13.869	15.823	31.777	1.00	25.21	S
ATOM	2831	OH2	WAT	S1635	52.620	30.612	55.173	1.00	30.08	S
ATOM	2832	OH2	WAT	S1636	26.556	19.486	52.050	1.00	29.07	S
ATOM	2833	OH2	WAT	S1637	21.965	25.980	45.841	1.00	19.07	S
ATOM	2834	OH2	WAT	S1638	51.617	33.897	42.473	1.00	9.81	S
ATOM	2835	OH2	WAT	S1639	11.552	20.655	19.351	1.00	16.68	S
ATOM	2836	OH2	WAT	S1640	30.899	45.201	19.222	1.00	26.19	S
ATOM	2837	OH2	WAT	S1641	31.709	48.342	31.000	1.00	18.10	S
ATOM	2838	OH2	WAT	S1642	23.676	25.327	22.818	1.00	14.28	S
ATOM	2839	OH2	WAT	S1643	25.577	17.219	46.479	1.00	20.91	S
ATOM	2840	OH2	WAT	S1644	18.005	18.283	19.152	1.00	24.14	S
ATOM	2841	OH2	WAT	S1645	52.881	16.705	50.095	1.00	20.16	S
ATOM	2842	OH2	WAT	S1646	5.848	42.562	37.856	1.00	19.01	S
ATOM	2843	OH2	WAT	S1647	43.582	14.659	34.565	1.00	28.17	S
ATOM	2844	OH2	WAT	S1648	22.374	17.743	20.886	1.00	18.81	S
ATOM	2845	OH2	WAT	S1649	8.712	48.989	27.030	1.00	23.87	S
ATOM	2846	OH2	WAT	S1650	2.521	47.157	34.228	1.00	30.10	S
ATOM	2847	OH2	WAT	S1651	44.220	43.064	40.109	1.00	29.97	S
ATOM	2848	OH2	WAT	S1652	27.919	24.353	12.179	1.00	16.62	S
ATOM	2849	OH2	WAT	S1653	3.523	42.077	26.249	1.00	22.83	S
ATOM	2850	OH2	WAT	S1654	20.380	44.291	37.672	1.00	17.30	S
ATOM	2851	OH2	WAT	S1655	57.034	28.423	45.056	1.00	27.44	S
ATOM	2852	OH2	WAT	S1656	49.668	24.467	30.455	1.00	22.73	S
ATOM	2853	OH2	WAT	S1657	51.259	13.409	45.586	1.00	34.23	S
ATOM	2854	OH2	WAT	S1658	9.456	23.136	36.163	1.00	24.71	S
ATOM	2855	OH2	WAT	S1659	52.331	23.665	57.905	1.00	18.92	S
ATOM	2856	OH2	WAT	S1660	43.381	40.535	56.268	1.00	30.03	S
ATOM	2857	OH2	WAT	S1661	13.806	46.776	43.159	1.00	30.72	S
ATOM	2858	OH2	WAT	S1662	53.981	30.491	48.223	1.00	13.32	S
ATOM	2859	OH2	WAT	S1663	41.765	26.570	28.744	1.00	27.76	S
ATOM	2860	OH2	WAT	S1664	40.737	17.318	53.732	1.00	24.67	S
ATOM	2861	OH2	WAT	S1665	13.225	44.990	8.674	1.00	28.84	S
ATOM	2862	OH2	WAT	S1666	49.013	41.254	39.651	1.00	28.00	S
ATOM	2863	OH2	WAT	S1667	44.805	37.426	30.933	1.00	16.56	S
ATOM	2864	OH2	WAT	S1668	43.625	18.020	54.500	1.00	24.62	S
ATOM	2865	OH2	WAT	S1669	14.317	25.699	46.118	1.00	34.64	S
ATOM	2866	OH2	WAT	S1670	3.256	42.913	32.109	1.00	29.06	S
ATOM	2867	OH2	WAT	S1671	10.555	49.763	20.725	1.00	28.19	S
ATOM	2868	OH2	WAT	S1672	10.096	51.223	27.611	1.00	23.49	S
ATOM	2869	OH2	WAT	S1673	14.363	23.946	36.209	1.00	40.49	S
ATOM	2870	OH2	WAT	S1674	25.126	59.432	22.831	1.00	22.37	S
ATOM	2871	OH2	WAT	S1675	36.093	4.004	46.425	1.00	41.05	S
ATOM	2872	OH2	WAT	S1676	58.346	33.177	43.906	1.00	32.25	S
ATOM	2873	OH2	WAT	S1677	48.932	35.192	51.801	1.00	26.68	S
ATOM	2874	OH2	WAT	S1678	58.902	19.301	43.107	1.00	25.48	S
ATOM	2875	OH2	WAT	S1679	44.340	42.085	50.822	1.00	28.00	S
ATOM	2876	OH2	WAT	S1680	50.480	38.266	34.016	1.00	31.92	S
ATOM	2877	OH2	WAT	S1681	32.259	20.178	55.706	1.00	22.68	S
ATOM	2878	OH2	WAT	S1682	5.907	48.823	21.778	1.00	41.37	S
ATOM	2879	OH2	WAT	S1683	50.286	29.738	36.205	1.00	41.24	S
ATOM	2880	OH2	WAT	S1684	48.359	24.392	27.682	1.00	21.59	S
ATOM	2881	OH2	WAT	S1685	28.819	16.491	25.944	1.00	22.91	S
ATOM	2882	OH2	WAT	S1686	27.814	39.366	53.598	1.00	22.13	S
ATOM	2883	OH2	WAT	S1687	23.282	56.182	29.647	1.00	21.73	S

FIGURE 5 (continued)

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ATOM   2884  OH2 WAT S1688      11.176  51.488  23.245  1.00 39.40      S
ATOM   2885  OH2 WAT S1689      19.333  13.893  25.470  1.00 16.29      S
ATOM   2886  OH2 WAT S1690      15.528  35.966  43.442  1.00 24.55      S
ATOM   2887  OH2 WAT S1691      28.485  18.098  54.189  1.00 38.82      S
ATOM   2888  OH2 WAT S1692      49.461  42.346  42.415  1.00 29.71      S
ATOM   2889  OH2 WAT S1693       6.986  51.318  31.491  1.00 38.19      S
ATOM   2890  OH2 WAT S1694      45.805  30.330  30.352  1.00 31.74      S
ATOM   2891  OH2 WAT S1695      12.688  17.949  24.810  1.00 24.29      S
ATOM   2892  OH2 WAT S1696      10.481  44.192  41.405  1.00 30.36      S
ATOM   2893  OH2 WAT S1697      36.497  25.163  61.042  1.00 22.75      S
ATOM   2894  OH2 WAT S1698      38.997   8.895  40.582  1.00 35.83      S
ATOM   2895  OH2 WAT S1699      34.429  41.271  24.603  1.00 25.66      S
ATOM   2896  OH2 WAT S1700       9.264  39.356  31.031  1.00 12.79      S
ATOM   2897  OH2 WAT S1701      10.070  23.977  42.971  1.00 38.68      S
ATOM   2898  OH2 WAT S1702      18.383  29.372   9.706  1.00 36.59      S
ATOM   2899  OH2 WAT S1703      49.044  14.511  44.663  1.00 29.13      S
ATOM   2900  OH2 WAT S1704      24.559  26.271  39.612  1.00  9.57      S
ATOM   2901  OH2 WAT S1705      20.114  45.757  12.779  1.00 24.18      S
ATOM   2902  OH2 WAT S1706      40.248  22.113  20.074  1.00 29.44      S
ATOM   2903  OH2 WAT S1707      18.194  41.869  42.229  1.00 17.46      S
ATOM   2904  OH2 WAT S1708      37.847  20.546  20.498  1.00 18.73      S
ATOM   2905  OH2 WAT S1709      16.821  29.280  41.001  1.00 24.06      S
ATOM   2906  OH2 WAT S1710      27.294  42.193  52.815  1.00 19.46      S
ATOM   2907  OH2 WAT S1711      40.821  42.347  51.556  1.00 22.66      S
ATOM   2908  OH2 WAT S1712      26.156  40.106  48.095  1.00 24.85      S
ATOM   2909  OH2 WAT S1713      20.103  24.718  47.608  1.00 30.63      S
ATOM   2910  OH2 WAT S1714      24.148  33.741  56.397  1.00 19.34      S
ATOM   2911  OH2 WAT S1715      18.973  45.993  36.285  1.00 18.68      S
ATOM   2912  OH2 WAT S1716      14.529  44.714  35.623  1.00 11.98      S
ATOM   2913  OH2 WAT S1717      38.781  35.753  22.003  1.00 28.14      S
ATOM   2914  OH2 WAT S1718       9.031  37.190  34.220  1.00 30.97      S
ATOM   2915  OH2 WAT S1719      35.994  16.311  25.745  1.00 28.93      S
ATOM   2916  OH2 WAT S1720      13.544  49.140  34.673  1.00 19.62      S
ATOM   2917  OH2 WAT S1721      22.265  37.832  42.637  1.00 21.65      S
ATOM   2918  OH2 WAT S1722       9.246  42.739  13.991  1.00 23.76      S
ATOM   2919  OH2 WAT S1723      46.901  14.013  46.528  1.00 24.08      S
ATOM   2920  OH2 WAT S1724      27.124  17.124  56.373  1.00 20.76      S
ATOM   2921  OH2 WAT S1725       5.808  39.927  37.880  1.00 30.10      S
ATOM   2922  OH2 WAT S1726      42.361  20.811  20.431  1.00 24.61      S
ATOM   2923  OH2 WAT S1727      26.665  17.537  21.374  1.00 22.27      S
ATOM   2924  OH2 WAT S1728      57.473  29.684  48.797  1.00 33.94      S
ATOM   2925  OH2 WAT S1729       0.205  29.580  11.300  1.00 28.38      S
ATOM   2926  OH2 WAT S1730      28.982  12.144  36.663  1.00 22.16      S
ATOM   2927  OH2 WAT S1731      -2.247  31.885  18.386  1.00 37.56      S
ATOM   2928  OH2 WAT S1732      19.593  14.821  28.910  1.00 29.82      S
ATOM   2929  OH2 WAT S1733       1.174  27.052  34.363  1.00 22.10      S
ATOM   2930  OH2 WAT S1734      35.909  11.924  47.248  1.00 27.93      S
ATOM   2931  OH2 WAT S1735      41.887  40.436  52.838  1.00 28.22      S
ATOM   2932  OH2 WAT S1736      26.213  19.454  10.997  1.00 22.64      S
ATOM   2933  OH2 WAT S1737      34.114  42.884  34.175  1.00 28.42      S
ATOM   2934  OH2 WAT S1738      22.945  32.302  53.065  1.00 25.85      S
ATOM   2935  OH2 WAT S1739      39.089  15.172  28.466  1.00 31.20      S
ATOM   2936  OH2 WAT S1740      47.610  43.601  46.621  1.00 36.15      S
ATOM   2937  OH2 WAT S1741      16.327  45.853  37.179  1.00 17.39      S
ATOM   2938  OH2 WAT S1742      55.363  25.260  59.367  1.00 29.21      S
ATOM   2939  OH2 WAT S1743      30.641  36.731  14.630  1.00 26.83      S
ATOM   2940  OH2 WAT S1744      10.864  46.250  10.531  1.00 23.96      S
ATOM   2941  OH2 WAT S1745      33.170  48.399  28.312  1.00 27.45      S
ATOM   2942  OH2 WAT S1746      32.054  14.892  42.067  1.00 24.32      S
ATOM   2943  OH2 WAT S1747      42.724  28.782  21.018  1.00 34.32      S
ATOM   2944  OH2 WAT S1748      51.123  15.697  52.194  1.00 27.97      S
ATOM   2945  OH2 WAT S1749      42.354  43.166  56.140  1.00 29.49      S
ATOM   2946  OH2 WAT S1750      28.037  37.891  13.736  1.00 33.67      S
ATOM   2947  OH2 WAT S1751      51.086  26.646  30.768  1.00 30.84      S
ATOM   2948  OH2 WAT S1752      10.931  38.592  10.467  1.00 25.71      S
ATOM   2949  OH2 WAT S1753      25.655  29.886  60.929  1.00 19.64      S
ATOM   2950  OH2 WAT S1754      17.145  13.376  23.383  1.00 34.23      S
ATOM   2951  OH2 WAT S1755      44.748  12.372  45.391  1.00 18.99      S
ATOM   2952  OH2 WAT S1756      24.658  10.868  33.101  1.00 39.56      S
ATOM   2953  OH2 WAT S1757      10.322  35.265  39.792  1.00 31.55      S
ATOM   2954  OH2 WAT S1758      57.341  22.537  45.377  1.00 16.36      S
ATOM   2955  OH2 WAT S1759       9.420  34.820  36.963  1.00 32.92      S
ATOM   2956  OH2 WAT S1760      32.502  28.596  14.854  1.00 21.37      S
ATOM   2957  OH2 WAT S1761      39.205  22.929  17.441  1.00 35.60      S
ATOM   2958  OH2 WAT S1762      20.840  52.812  17.278  1.00 31.30      S
ATOM   2959  OH2 WAT S1763      34.711  11.735  35.138  1.00 32.11      S
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FIGURE 5 (continued)

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ATOM   2960  OH2 WAT S1764      51.666  34.131  47.365  1.00 35.34      S
ATOM   2961  OH2 WAT S1765      -2.014  36.180  15.830  1.00 28.16      S
ATOM   2962  OH2 WAT S1766      15.482  48.721  37.060  1.00 29.26      S
ATOM   2963  OH2 WAT S1767      40.630  14.716  31.062  1.00 40.40      S
ATOM   2964  OH2 WAT S1768      23.698  61.256  21.533  1.00 16.86      S
ATOM   2965  OH2 WAT S1769      24.781  28.532  54.977  1.00 16.20      S
ATOM   2966  OH2 WAT S1770      26.852  25.257  10.061  1.00 30.41      S
ATOM   2967  OH2 WAT S1771      43.726  10.405  46.878  1.00 29.13      S
ATOM   2968  OH2 WAT S1772      25.837  37.362  54.027  1.00 21.97      S
ATOM   2969  OH2 WAT S1773      33.373  46.686  32.566  1.00 26.20      S
ATOM   2970  OH2 WAT S1774      27.264  20.817  13.545  1.00 22.02      S
ATOM   2971  OH2 WAT S1775      47.925  30.806  31.477  1.00 33.49      S
ATOM   2972  OH2 WAT S1776       8.238  38.202  37.592  1.00 26.28      S
ATOM   2973  OH2 WAT S1777      21.090  51.641  25.222  1.00 18.54      S
ATOM   2974  OH2 WAT S1778       6.267  38.069  32.873  1.00 22.17      S
ATOM   2975  OH2 WAT S1779      23.234  49.347  16.745  1.00 24.08      S
ATOM   2976  OH2 WAT S1780      22.134  39.856  40.656  1.00 21.00      S
ATOM   2977  OH2 WAT S1781      20.856  35.405   9.637  1.00 23.13      S
ATOM   2978  OH2 WAT S1782      21.475  53.999  26.047  1.00 27.01      S
ATOM   2979  OH2 WAT S1783      34.915  27.212  15.190  1.00 31.71      S
ATOM   2980  OH2 WAT S1784      45.211  12.993  42.137  1.00 21.38      S
ATOM   2981  OH2 WAT S1785      38.126  34.805  40.034  1.00 17.57      S
ATOM   2982  OH2 WAT S1786      30.962  49.798  21.332  1.00 32.31      S
ATOM   2983  OH2 WAT S1787      33.222  19.319  25.705  1.00 29.22      S
ATOM   2984  OH2 WAT S1788      40.144  19.662  28.253  1.00 33.93      S
ATOM   2985  OH2 WAT S1789       6.555  28.590  37.281  1.00 28.90      S
ATOM   2986  OH2 WAT S1790      43.426  43.935  45.155  1.00 34.35      S
ATOM   2987  OH2 WAT S1791       3.263  33.201  14.705  1.00 33.11      S
ATOM   2988  OH2 WAT S1792      20.149  16.998  31.047  1.00 26.99      S
ATOM   2989  OH2 WAT S1793      34.123  42.842  21.180  1.00 24.49      S
ATOM   2990  OH2 WAT S1794      49.929  18.274  53.829  1.00 39.26      S
ATOM   2991  OH2 WAT S1795      14.815  31.617   9.739  1.00 35.94      S
ATOM   2992  OH2 WAT S1796      45.588  41.539  53.753  1.00 35.01      S
ATOM   2993  OH2 WAT S1797      33.245  52.433  24.002  1.00 34.85      S
ATOM   2994  OH2 WAT S1798      43.010  24.276  22.909  1.00 21.38      S
ATOM   2995  OH2 WAT S1799      19.769  14.826  46.718  1.00 30.67      S
ATOM   2996  OH2 WAT S1800      29.812  17.873  43.458  1.00 28.85      S
ATOM   2997  OH2 WAT S1801       7.028  22.438  24.718  1.00 30.13      S
ATOM   2998  OH2 WAT S1802       7.451  42.723  16.836  1.00 34.86      S
ATOM   2999  OH2 WAT S1803      13.062  50.532  16.899  1.00 27.23      S
ATOM   3000  OH2 WAT S1804      31.535  17.528  46.115  1.00 21.48      S
ATOM   3001  OH2 WAT S1805       1.214  41.199  23.409  1.00 33.03      S
ATOM   3002  OH2 WAT S1806      12.350  33.958  40.836  1.00 34.82      S
ATOM   3003  OH2 WAT S1807      33.164  41.928  54.755  1.00 33.81      S
ATOM   3004  OH2 WAT S1808       4.467  50.285  27.482  1.00 36.79      S
ATOM   3005  OH2 WAT S1809      60.702  26.732  42.684  1.00 35.13      S
ATOM   3006  OH2 WAT S1810      22.799  31.560  57.795  1.00 32.80      S
ATOM   3007  OH2 WAT S1811      16.630  35.862   8.507  1.00 29.92      S
ATOM   3008  OH2 WAT S1812      58.212  35.487  40.540  1.00 33.76      S
ATOM   3009  OH2 WAT S1813      31.566  17.525  26.426  1.00 39.01      S
ATOM   3010  OH2 WAT S1814      38.884  37.614  20.120  1.00 33.89      S
ATOM   3011  OH2 WAT S1815      58.154  24.777  37.822  1.00 35.73      S
ATOM   3012  OH2 WAT S1816      34.384  14.783  47.649  1.00 37.28      S
ATOM   3013  OH2 WAT S1817       3.439  43.153  36.372  1.00 30.78      S
ATOM   3014  OH2 WAT S1818      47.394  12.444  43.290  1.00 30.32      S
ATOM   3015  OH2 WAT S1819      24.644  13.829  44.044  1.00 32.65      S
ATOM   3016  OH2 WAT S1820      35.990  42.985  32.322  1.00 29.66      S
ATOM   3017  OH2 WAT S1821      26.914  40.212   9.947  1.00 33.58      S
ATOM   3018  OH2 WAT S1822      40.296  29.386  23.361  1.00 44.10      S
ATOM   3019  OH2 WAT S1823      42.915  30.163  27.417  1.00 33.23      S
ATOM   3020  OH2 WAT S1824      14.322  38.428   8.032  1.00 35.73      S
ATOM   3021  OH2 WAT S1825      33.329  16.000  45.385  1.00 29.78      S
ATOM   3022  OH2 WAT S1826      55.683  28.168  38.449  1.00 30.81      S
ATOM   3023  OH2 WAT S1827      18.514  45.706   9.695  1.00 34.33      S
ATOM   3024  OH2 WAT S1828      19.453  54.788  22.809  1.00 42.02      S
ATOM   3025  OH2 WAT S1829      46.686  27.005  20.816  1.00 31.17      S
ATOM   3026  OH2 WAT S1830      50.779  32.327  54.666  1.00 44.04      S
ATOM   3027  OH2 WAT S1831       5.243  43.614  40.262  1.00 40.69      S
ATOM   3028  OH2 WAT S1832      45.151  43.041  33.919  1.00 28.47      S
ATOM   3029  OH2 WAT S1833      26.385  11.949  41.104  1.00 33.70      S
ATOM   3030  OH2 WAT S1834      36.104  26.756  17.653  1.00 32.43      S
ATOM   3031  OH2 WAT S1835      40.585   7.298  41.894  1.00 32.97      S
ATOM   3032  OH2 WAT S1836      22.940  54.196  16.985  1.00 39.88      S
ATOM   3033  OH2 WAT S1837      53.968  24.450  37.442  1.00 39.29      S
ATOM   3034  OH2 WAT S1838      16.318  26.973  42.179  1.00 32.94      S
ATOM   3035  OH2 WAT S1839      14.513  48.940  39.307  1.00 29.97      S
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FIGURE 5 (continued)

ATOM	3036	OH2	WAT	S1840	31.652	6.945	51.493	1.00	27.66	S
ATOM	3037	OH2	WAT	S1841	41.996	11.677	38.039	1.00	37.88	S
ATOM	3038	OH2	WAT	S1842	7.510	48.642	19.668	1.00	35.11	S
ATOM	3039	OH2	WAT	S1843	42.467	3.493	49.912	1.00	33.41	S
ATOM	3040	OH2	WAT	S1844	59.776	22.501	42.412	1.00	44.37	S
ATOM	3041	OH2	WAT	S1845	7.867	44.473	12.687	1.00	34.20	S
ATOM	3042	OH2	WAT	S1846	15.405	45.353	39.658	1.00	38.08	S
ATOM	3043	OH2	WAT	S1847	13.585	15.183	28.501	1.00	36.58	S
ATOM	3044	OH2	WAT	S1848	48.442	41.492	47.985	1.00	26.95	S
ATOM	3045	OH2	WAT	S1849	50.374	40.886	46.017	1.00	34.93	S
ATOM	3046	OH2	WAT	S1850	44.568	8.030	45.822	1.00	42.34	S
ATOM	3047	OH2	WAT	S1851	48.705	28.443	22.632	1.00	34.87	S
ATOM	3048	OH2	WAT	S1852	38.217	33.408	18.268	1.00	40.91	S
ATOM	3049	OH2	WAT	S1853	26.698	47.866	16.749	1.00	26.87	S
ATOM	3050	OH2	WAT	S1854	36.624	40.405	57.361	1.00	30.57	S
ATOM	3051	OH2	WAT	S1855	44.243	22.209	21.682	1.00	25.97	S
ATOM	3052	OH2	WAT	S1856	50.807	22.291	30.826	1.00	30.01	S
ATOM	3053	OH2	WAT	S1857	2.113	19.175	16.420	1.00	39.64	S
ATOM	3054	OH2	WAT	S1858	35.799	20.261	25.717	1.00	29.95	S
ATOM	3055	OH2	WAT	S1859	10.845	51.013	18.474	1.00	29.30	S
ATOM	3056	OH2	WAT	S1860	13.036	16.982	18.603	1.00	35.56	S
ATOM	3057	OH2	WAT	S1861	48.755	33.466	53.529	1.00	32.19	S
ATOM	3058	OH2	WAT	S1862	28.542	12.640	28.777	1.00	32.37	S
ATOM	3059	OH2	WAT	S1863	15.582	33.781	40.294	1.00	31.38	S
ATOM	3060	OH2	WAT	S1864	15.389	51.736	31.264	1.00	35.97	S
ATOM	3061	OH2	WAT	S1865	59.586	24.576	44.154	1.00	38.45	S
ATOM	3062	OH2	WAT	S1866	33.931	18.197	52.470	1.00	31.45	S
ATOM	3063	OH2	WAT	S1867	33.400	24.810	14.487	1.00	31.43	S
ATOM	3064	OH2	WAT	S1868	2.939	39.474	28.464	1.00	42.13	S
ATOM	3065	OH2	WAT	S1869	52.149	36.661	45.439	1.00	34.90	S
ATOM	3066	OH2	WAT	S1870	45.901	34.119	54.146	1.00	28.55	S
ATOM	3067	OH2	WAT	S1871	21.485	29.372	44.666	1.00	37.03	S
ATOM	3068	OH2	WAT	S1872	10.455	19.175	23.705	1.00	36.18	S
ATOM	3069	OH2	WAT	S1873	29.820	54.141	17.625	1.00	37.56	S
ATOM	3070	OH2	WAT	S1874	36.824	12.036	41.616	1.00	36.62	S
ATOM	3071	OH2	WAT	S1875	35.575	29.695	13.582	1.00	31.58	S
ATOM	3072	OH2	WAT	S1876	47.689	26.645	56.483	1.00	29.75	S
ATOM	3073	OH2	WAT	S1877	25.923	24.021	7.877	1.00	35.32	S
ATOM	3074	OH2	WAT	S1878	35.914	42.663	19.444	1.00	38.13	S
ATOM	3075	OH2	WAT	S1879	53.553	27.199	37.462	1.00	34.02	S
ATOM	3076	OH2	WAT	S1880	31.012	18.989	51.960	1.00	32.14	S
ATOM	3077	OH2	WAT	S1881	5.543	24.207	39.126	1.00	33.92	S
ATOM	3078	OH2	WAT	S1882	12.515	49.450	14.280	1.00	38.32	S
ATOM	3079	OH2	WAT	S1883	19.621	34.441	42.264	1.00	32.10	S
ATOM	3080	OH2	WAT	S1884	0.567	34.443	15.606	1.00	41.76	S
ATOM	3081	OH2	WAT	S1885	19.842	21.597	48.228	1.00	38.20	S
ATOM	3082	OH2	WAT	S1886	17.245	44.489	41.443	1.00	36.34	S
ATOM	3083	OH2	WAT	S1887	31.241	17.703	18.315	1.00	43.85	S
ATOM	3084	OH2	WAT	S1888	47.120	35.974	31.511	1.00	44.95	S
ATOM	3085	OH2	WAT	S1889	16.721	12.447	25.646	1.00	42.81	S
ATOM	3086	OH2	WAT	S1890	17.002	21.309	47.530	1.00	35.74	S
ATOM	3087	OH2	WAT	S1891	11.124	36.224	11.415	1.00	28.23	S
ATOM	3088	OH2	WAT	S1892	31.476	35.439	12.666	1.00	29.98	S
ATOM	3089	OH2	WAT	S1893	20.313	44.798	8.239	1.00	38.49	S
ATOM	3090	OH2	WAT	S1894	49.492	37.692	31.490	1.00	34.21	S
ATOM	3091	OH2	WAT	S1895	11.168	48.631	11.775	1.00	35.00	S
ATOM	3092	OH2	WAT	S1896	8.149	35.174	12.830	1.00	43.18	S
ATOM	3093	OH2	WAT	S1897	42.985	36.028	29.277	1.00	37.84	S
ATOM	3094	OH2	WAT	S1898	15.722	26.088	38.269	1.00	40.56	S
ATOM	3095	OH2	WAT	S1899	9.466	42.584	43.325	1.00	38.58	S
ATOM	3096	OH2	WAT	S1900	55.683	27.859	55.011	1.00	40.16	S
ATOM	3097	OH2	WAT	S1901	16.412	44.824	6.088	1.00	35.00	S
ATOM	3098	OH2	WAT	S1902	30.819	20.863	13.376	1.00	36.12	S
ATOM	3099	OH2	WAT	S1903	20.083	45.050	40.249	1.00	46.55	S
ATOM	3100	OH2	WAT	S1904	55.216	16.767	37.256	1.00	32.34	S
ATOM	3101	OH2	WAT	S1905	17.194	15.633	31.289	1.00	41.92	S
ATOM	3102	OH2	WAT	S1906	55.468	39.305	45.956	1.00	33.48	S
ATOM	3103	OH2	WAT	S1907	34.073	59.171	22.880	1.00	29.68	S
ATOM	3104	OH2	WAT	S1908	11.696	23.487	37.533	1.00	44.83	S
ATOM	3105	OH2	WAT	S1909	37.193	57.700	24.645	1.00	29.20	S
ATOM	3106	OH2	WAT	S1910	4.958	20.071	12.971	1.00	38.75	S
ATOM	3107	OH2	WAT	S1911	28.212	15.651	46.090	1.00	44.28	S
ATOM	3108	OH2	WAT	S1912	25.791	17.881	50.101	1.00	44.07	S
ATOM	3109	OH2	WAT	S1913	44.830	16.225	28.015	1.00	37.34	S
ATOM	3110	OH2	WAT	S1914	45.538	25.603	58.524	1.00	31.60	S
ATOM	3111	OH2	WAT	S1915	31.849	53.832	20.135	1.00	44.08	S

FIGURE 5 (continued)

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ATOM   3112  OH2 WAT S1916      55.981  32.376  47.108  1.00 41.65      S
ATOM   3113  OH2 WAT S1917      35.699  24.353  16.736  1.00 43.04      S
ATOM   3114  OH2 WAT S1918       3.252  25.157  38.490  1.00 42.38      S
ATOM   3115  OH2 WAT S1919      34.711  10.496  39.861  1.00 36.97      S
ATOM   3116  OS4 PLA P1001       8.781  29.613  10.689  1.00 35.34      P
ATOM   3117  S2  PLA P1001       9.783  28.546  11.256  1.00 33.57      P
ATOM   3118  OS5 PLA P1001      10.409  27.663   9.867  1.00 40.37      P
ATOM   3119  OS6 PLA P1001      11.159  29.189  12.135  1.00 41.03      P
ATOM   3120  C15 PLA P1001       9.058  27.351  12.199  1.00 30.49      P
ATOM   3121  C14 PLA P1001       7.662  27.126  12.015  1.00 23.35      P
ATOM   3122  C16 PLA P1001       9.978  26.532  12.898  1.00 28.94      P
ATOM   3123  C10 PLA P1001       9.499  25.436  13.634  1.00 30.90      P
ATOM   3124  C11 PLA P1001       8.025  25.127  13.485  1.00 25.22      P
ATOM   3125  C13 PLA P1001       7.134  25.968  12.614  1.00 21.41      P
ATOM   3126  O3  PLA P1001       5.837  25.588  12.437  1.00 24.00      P
ATOM   3127  C12 PLA P1001       7.519  23.932  14.212  1.00 27.53      P
ATOM   3128  O2  PLA P1001       6.235  23.585  13.967  1.00 21.97      P
ATOM   3129  C9  PLA P1001      10.366  24.618  14.415  1.00 32.13      P
ATOM   3130  C8  PLA P1001       9.876  23.541  15.205  1.00 31.56      P
ATOM   3131  S1  PLA P1001      10.846  22.324  15.981  1.00 31.16      P
ATOM   3132  OS3 PLA P1001      12.358  22.881  16.679  1.00 39.44      P
ATOM   3133  OS2 PLA P1001      11.138  21.153  14.733  1.00 28.72      P
ATOM   3134  OS1 PLA P1001      10.061  21.436  17.011  1.00 39.17      P
ATOM   3135  C7  PLA P1001       8.424  23.154  15.086  1.00 20.93      P
ATOM   3136  N2  PLA P1001       7.947  21.974  15.652  1.00 27.49      P
ATOM   3137  N1  PLA P1001       6.731  21.270  15.708  1.00 26.74      P
ATOM   3138  C2  PLA P1001       6.780  19.948  16.206  1.00 29.90      P
ATOM   3139  C1  PLA P1001       7.938  19.230  16.659  1.00 26.11      P
ATOM   3140  C3  PLA P1001       5.455  19.218  16.215  1.00 29.97      P
ATOM   3141  O1  PLA P1001       4.329  19.881  15.839  1.00 27.77      P
ATOM   3142  C4  PLA P1001       5.419  17.867  16.622  1.00 27.79      P
ATOM   3143  C5  PLA P1001       6.617  17.226  17.060  1.00 24.04      P
ATOM   3144  C6  PLA P1001       7.890  17.875  17.105  1.00 28.93      P
ATOM   3145  CL1 PLA P1001       8.958  17.179  17.619  1.00 13.83      P
ATOM   3146  OS4 PLA P1002      -1.265  32.010  14.293  1.00 40.73      P
ATOM   3147  S2  PLA P1002      -2.593  31.401  14.907  1.00 34.43      P
ATOM   3148  OS5 PLA P1002      -3.293  32.318  16.225  1.00 36.70      P
ATOM   3149  OS6 PLA P1002      -3.702  31.417  13.545  1.00 38.28      P
ATOM   3150  C15 PLA P1002      -2.360  29.762  15.366  1.00 37.51      P
ATOM   3151  C14 PLA P1002      -1.339  29.023  14.693  1.00 32.35      P
ATOM   3152  C16 PLA P1002      -3.324  29.136  16.198  1.00 32.13      P
ATOM   3153  C10 PLA P1002      -3.227  27.770  16.534  1.00 32.57      P
ATOM   3154  C11 PLA P1002      -2.159  26.968  15.824  1.00 27.55      P
ATOM   3155  C13 PLA P1002      -1.219  27.623  14.849  1.00 32.76      P
ATOM   3156  O3  PLA P1002      -0.300  26.897  14.135  1.00 26.73      P
ATOM   3157  C12 PLA P1002      -2.103  25.533  16.170  1.00 29.76      P
ATOM   3158  O2  PLA P1002      -1.093  24.861  15.620  1.00 19.01      P
ATOM   3159  C9  PLA P1002      -4.076  27.177  17.503  1.00 28.28      P
ATOM   3160  C8  PLA P1002      -4.072  25.777  17.756  1.00 30.57      P
ATOM   3161  S1  PLA P1002      -4.937  25.049  19.065  1.00 30.09      P
ATOM   3162  OS3 PLA P1002      -6.417  25.925  19.382  1.00 26.32      P
ATOM   3163  OS2 PLA P1002      -3.886  25.328  20.444  1.00 39.20      P
ATOM   3164  OS1 PLA P1002      -5.060  23.483  18.960  1.00 35.43      P
ATOM   3165  C7  PLA P1002      -3.056  24.884  17.116  1.00 30.01      P
ATOM   3166  N2  PLA P1002      -2.942  23.547  17.510  1.00 30.83      P
ATOM   3167  N1  PLA P1002      -1.994  22.600  17.132  1.00 26.11      P
ATOM   3168  C2  PLA P1002      -2.109  21.347  17.777  1.00 33.57      P
ATOM   3169  C1  PLA P1002      -3.069  20.979  18.767  1.00 28.55      P
ATOM   3170  C3  PLA P1002      -1.126  20.289  17.352  1.00 32.70      P
ATOM   3171  O1  PLA P1002      -0.254  20.633  16.366  1.00 26.71      P
ATOM   3172  C4  PLA P1002      -1.181  19.011  17.978  1.00 35.63      P
ATOM   3173  C5  PLA P1002      -2.175  18.727  18.965  1.00 32.99      P
ATOM   3174  C6  PLA P1002      -3.137  19.696  19.364  1.00 34.82      P
ATOM   3175  CL1 PLA P1002      -4.110  19.418  20.286  1.00 26.50      P
ATOM   3176  P   PO4 I1000      31.378  36.578  34.442  1.00  7.30      I
ATOM   3177  O1  PO4 I1000      30.121  37.237  34.900  1.00  8.97      I
ATOM   3178  O2  PO4 I1000      32.276  37.583  33.795  1.00  6.24      I
ATOM   3179  O3  PO4 I1000      31.043  35.497  33.462  1.00  6.45      I
ATOM   3180  O4  PO4 I1000      32.089  35.965  35.624  1.00  7.79      I
ATOM   3181  U   U   I1100       0.273  22.910  15.547  1.00 30.28      I
ATOM   3182  U   U   I1101       4.450  22.112  14.520  1.00 29.14      I
ATOM   3183  U   U   I1102       2.292  24.635  12.979  0.50 39.41      I
ATOM   3184  NA  NA  I1200      37.019  13.768  54.963  1.00 21.53      I
END
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FIGURE 5 (continued)